

## COLOR TELEVISION

**Chassis No. SN-83**

**MODEL 32K-X1000**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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## ELECTRICAL SPECIFICATIONS

POWER INPUT .....	120V AC 60 Hz
POWER RATING .....	145W
PICTURE SIZE .....	3,073cm <sup>2</sup> (476sq inch)
CONVERGENCE .....	Magnetic
SWEEP DEFLECTION .....	Magnetic
FOCUS .....	Hi-Bi-Potential Electrostatic
INTERMEDIATE FREQUENCIES	
Picture IF Carrier Frequency .....	45.75 MHz
Sound IF Carrier Frequency .....	41.25 MHz
Color Sub-Carrier Frequency .....	42.17 MHz
	(Nominal)

**AUDIO POWER**  
**OUTPUT RATING** ..... 3W + 3W (at 10% distortion and  
Dual CH Operate)

**SPEAKER**  
 SIZE ..... 12 x 6 cm (2 pcs.)  
 VOICE COIL IMPEDANCE ..... 6 ohm at 400 Hz

**ANTENNA INPUT IMPEDANCE**  
 VHF/UHF ..... 75 ohm Unbalanced

**TUNING RANGES**  
 VHF-Channels ..... 2 thru 13  
 UHF-Channels ..... 14 thru 69  
 CATV Channels ..... 1 thru 125

(EIA, Channel Plan U.S.A.)

**Specifications are subject to change without prior notice.**

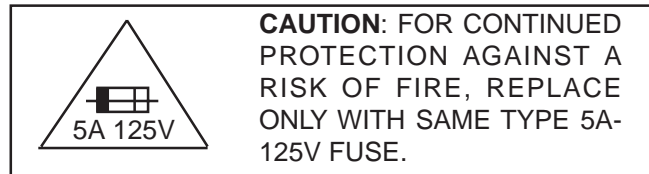
## IMPORTANT SERVICE SAFETY PRECAUTION

- **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.

To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



### SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

**When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)**

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

### X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.

It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.

2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a colour chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver. Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

## IMPORTANT SERVICE SAFETY PRECAUTION (Continued)

### BEFORE RETURNING THE RECEIVER

#### (Fire & Shock Hazard)

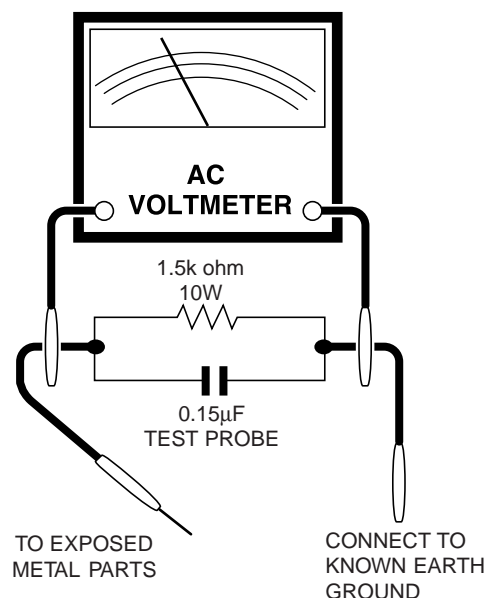
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
  - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC ine cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



### SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " $\triangle$ " and shaded areas in the **Replacement Parts Lists** and **Schematic Diagrams**.

For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

# LOCATION OF USER'S CONTROL

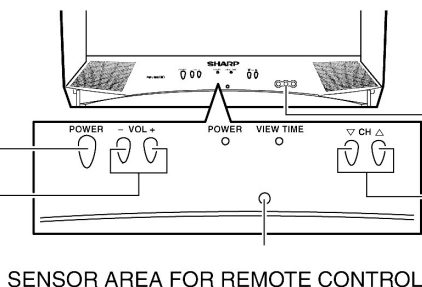
## Front Panel

### POWER

Press → On.  
Press again → Off.

### VOLUME UP/DOWN

(+) Increases sound.  
(-) Decreases sound.



SENSOR AREA FOR REMOTE CONTROL

## VIDEO/AUDIO IN 3 TERMINALS

(VIDEO/AUDIO terminals are also provided on the rear.)

### CHANNEL UP/DOWN

(▲) Selects next higher channel.  
(▼) Selects next lower channel.

## Basic Remote Control Functions

### POWER

Press → On.  
Press again → Off.

### REMOTE KEYPAD

Accesses any channel from keypad.

### FLASHBACK

Returns to previous channel.

### PERSONAL PREFERENCE

With the Personal Preference buttons, you can program your favorite programs by using the 4 categories A, B, C and D. The channels can be accessed quickly by using these buttons.

### VOLUME UP/DOWN

(+) Increases sound.  
(-) Decreases sound.

- In menu mode, changes or selects the TV adjustments.

### TV-CATV MODE SELECT SWITCH

In TV position, sends power and channel select commands (Channel up/down and Random Access buttons) to the TV.

In CATV position, sends power and channel select commands to a cable TV converter.

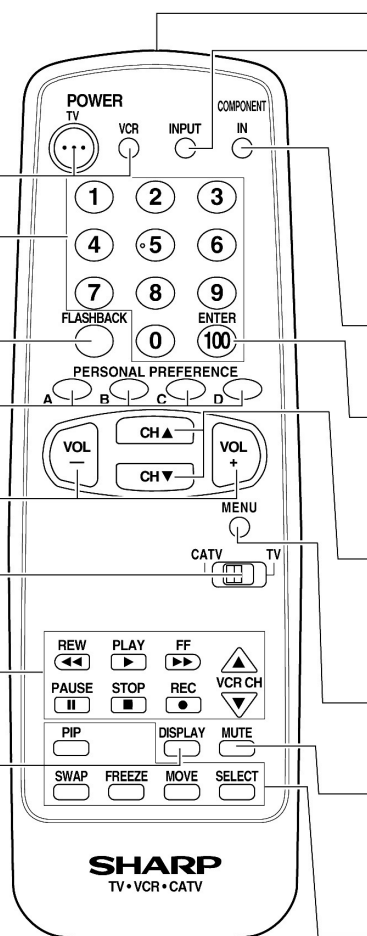
### VCR CONTROL

### DISPLAY

Press → Displays receiving channel for 4 seconds.

Press again → Displays remaining time of SLEEP TIMER and VIEW TIMER.

Press 3 times → Temporarily displays receiving channel when in Closed Caption mode.



Infrared Transmitter Window

### INPUT

Press → Switch to external video INPUT 1 mode.

Press again → Switch to external video INPUT 2 mode.

Press 3 times → Switch to external video INPUT 3 mode.

Press 4 times → Switch back to the original TV mode.

### COMPONENT INPUT

Used to select On or Off a DTV or DVD when you connect to Component Input Terminals.

### ENTER

Used in some instances where a VCR or Cable Converter Box requires an "enter" command after selecting channels, when using the REMOTE KEYPAD button.

### CHANNEL UP/DOWN

(▲) Selects next higher channel.  
(▼) Selects next lower channel.

- Moves the "▶" mark of the MENU screens.

### MENU

Press → Accesses MAIN MENU.  
Press again → Exits MAIN MENU.

### MUTE

Press → Mutes sound.

Press again → Restores sound.

- CLOSED CAPTION appears when sound is muted.

### PIP FUNCTION

With the VIDEO inputs, you can watch two pictures at the same time.

## Note:

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

# INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.  
 (2) Before performing adjustments, the TV set must be on at least 15 minutes.

## CIRCUIT PROTECTION

The receiver is protected by a 5.0A fuse (F701), mounted on PWB-C, wired into one side of the AC line input.

## X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

- 1) Apply 120V AC using a variac transformer for accurate input voltage.
- 2) Allow for warm up and adjust all customer controls for normal picture and sound.
- 3) Receive a good local channel.
- 4) Connect a digital voltmeter to TP653 and make sure that the voltmeter reads  $11.8 \pm 0.7V$ .
- 5) Apply external 14.5V DC at TP653 by using an external DC supply, TV must be shut off.
- 6) To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
- 7) If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

## HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service No. "S21" and Bus data "01" (Y-mute on).
4. The voltage should be approximately, 32.8kV (at zero beam).

If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

**Note:** There are still a few analog adjustments in this series such as focus and master screen voltage.

Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

### 1. Service Mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

### 2. Service Number Selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "S01" to "C13". Select the item you wish to adjust.

### 3. Data Number Selection

Press the Vol-up or down button to adjust the data number.

### To enter the service mode and exit service mode.

While pressing the Vol-up and Ch-up buttons at the sametime, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

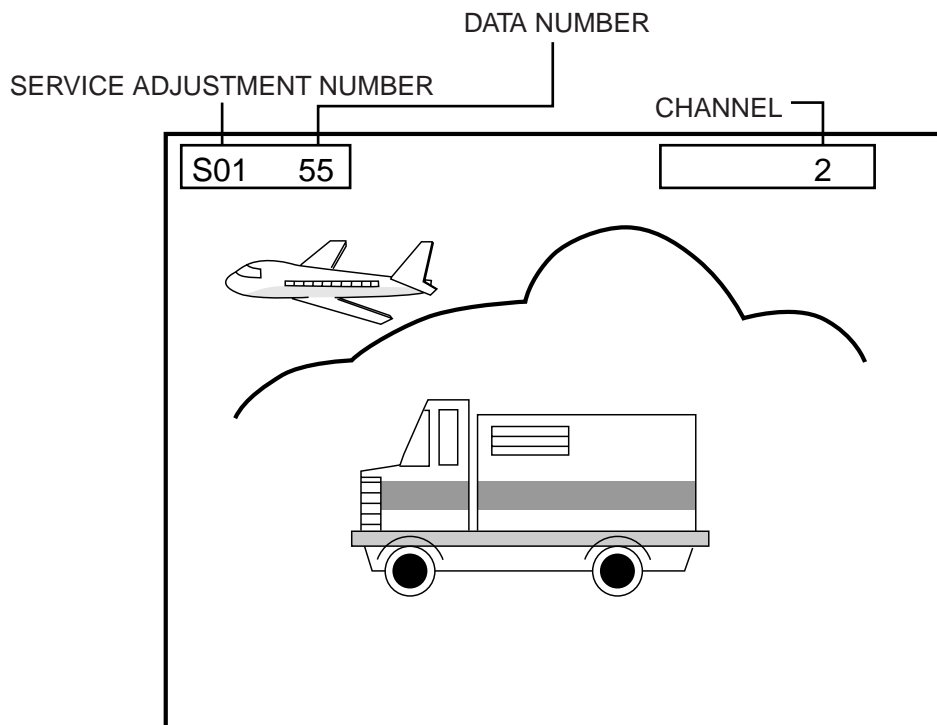


Figure A.



SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
S01	PICTURE HEIGHT	71	00-127	Must be set to "41"
S02	V-LINEARITY	27	00-31	
S03	V-J CORRECTION	41	00-63	
S04	PICTURE WIDTH	50	00-63	
S05	E-W PARABOLA	15	00-63	
S06	E-W CORNER	13	00-31	Must be set to "01"
S07	TRAPEZIUM	65	00-127	
S08	AGC SW	01	00-01	
S09	PICTURE (SUB CONTRAST)	28	00-31	
S10	TINT	20	00-63	
S11	COLOR (SUB COLOR)	13	00-31	Must be set to "05"
S12	BRIGHT (BRIGHTNESS)	58	00-101	
S13	SHARP (SHARPNESS)	05	00-27	
S14	V-POSITION	00	00-07	
S15	H-POSITION	17	00-31	
S16	R CUT-OFF	64	00-255	Must be set to "00"
S17	G CUT-OFF	64	00-255	
S18	B CUT-OFF	64	00-255	
S19	G (R) DRIVE	64	00-127	
S20	B DRIVE	64	00-127	
S21	Y-MUTE/V-OFF	00	00-02	"00" = NORMAL, "01" = No Y, "03" = No VERTICAL
S22	Y-γ CURVE	00	00-03	Must be set to "03"
S23	VSM PHASE	01	00-03	Must be set to "02"
S24	APACON PEAK f0	01	00-07	Must be set to "01"
S25	DC RESTORATION RATE	21	00-63	Must be set to "21"
S26	DC RESTORATION LIMIT	00	00-03	Must be set to "00"
S27	BLACK STRETCH POINT	03	00-07	Must be set to "03"
S28	APL VS BPS	01	00-03	Must be set to "01"
S29	B.L.C.	01	00-01	Must be set to "01"
S30	DYNAMIC ABL POINT	04	00-07	Must be set to "04"
S31	DYNAMIC ABL GAIN	04	00-07	Must be set to "04"
S32	ABL POINT	03	00-07	Must be set to "03"
S33	ABL GAIN	03	00-07	Must be set to "03"
S34	Y-DL	01	00-01	Must be set to "00"
S35	TOF-f0	04	00-07	Must be set to "07"
S36	TOF-Q	04	00-07	Must be set to "04"
S37	VSM GAIN	01	00-03	Must be set to "01"
S38	OSD SL	00	00-01	Must be set to "00"
S39	C-DECODE	105	00-255	Must be set to "161"
S40	OSD POSITION	11	00-15	Must be set to "00"
M01	INPUT LEVEL (ATT)	07	00-15	
M02	MTS VCO	37	00-63	
M03	FILTER	30	00-63	
M04	WIDE BAND	17	00-63	
M05	SPECTRAL	22	00-63	Must be set to "00"
M06	MTS DATA READ	00	00	
P01	PIP Y-LEVEL (CONTRAST)	43	00-127	
P02	PIP TINT (TINT)	41	00-63	
P03	PIP COLOR (COLOR_SAT)	55	00-127	
P04	Y-OFFSET (Y_OFFSET)	09	00-31	Must be set to "09"
P05	PIP H-POSI (HXA)	09	00-255	Must be set to "10"
P06	BGP (HADJ)	00	00-15	Must be set to "00"
P07	FREE RUN (FREE_RUN_ADJ)	11	00-15	Must be set to "11"
C01	PICTURE-C (SUB CONTRAST)	28	00-31	Must be set to "17"
C02	TINT-C	20	00-63	Must be set to "14"
C03	COLOR-C (SUB COLOR)	08	00-63	Must be set to "08"

Table - A

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
C04	BRIGHT-C (BRIGHTNESS)	58	00-101	Must be set to "05" Must be set to "00"
C05	SHARP-C (SHARPNESS)	05	00-27	
C06	V-POSITION-C	00	00-07	
C07	H-POSITION-C	19	00-31	
C08	R CUT-OFF-C	64	00-255	
C09	G CUT-OFF-C	64	00-255	
C10	B CUT-OFF-C	64	00-255	
C11	G (R) DRIVE-C	64	00-127	
C12	B DRIVE-C	64	00-127	
C13	VSM GAIN-C	02	00-03	

Table - A

Holding down both the CH-up/down buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2002.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2002.
IC401	X		The adjustment is needed to compensate for characteristics of parts including IC401.
IC2002	X		Holding down both the CH-up/down buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2002. Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M06).
IC1801	X		Adjust items related to P-IN-P only (P01~P07).

Table - B



## ■ SERVICE ADJUSTMENT

### Screen Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "S11" and set the data value to "00" to set the color level to minimum. (Record original data code under No. "S11" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service No. "S21" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Select the service No. "S12" and adjust data value to "58".
5. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
6. Adjust the service numbers "S16" red, "S17" green and "S18" blue to obtain a good grey scale with normal whites at low brightness level.
7. Select the service No. "S21" and reset data to "00". Select the service No. "S11" and reset data to obtain normal color level.
8. Reset the master screen control to obtain normal brightness range.

### White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "S11" and set to "00" (minimum color)(Record original data code under adjustment "S11" before changing). "S11" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service numbers "S19" and "S20" until a good grey scale with normal whites is obtained.
4. Select the service No. "S11" and adjust data to obtain normal color level.

### Sub-Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service No. "S09".
4. Adjust the data value to achieve normal contrast range.

### Sub-Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service No. "S10".
4. Adjust "S10" data value to obtain normal flesh tones.

### Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select the service No. "S11".
4. Adjust "S11" data value to obtain normal color level.

### Sub-Brightness Adjustment

1. Receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service No. "S12".
4. Adjust "S12" data value to obtain normal brightness level.

### Vertical Linearity Adjustment

1. Receive a good CATV channel.
2. Set to standard setting mode.
3. Enter the service mode and select the service No. "S02".
4. While observing the top and bottom of the screen, adjust "S02" data value to proper vertical linearity.

### Vertical Phase Adjustment

1. Enter the service mode and select the service No. "S14".
2. Adjust data value to "00".  
**Note:** This must be set "00" when changed data retrace line will appear.

### Vertical-Size Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "S01".
3. While observing the top and bottom of the screen, adjust "S01" data value to proper vertical size.

### Side Pincushion Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Set to standard setting mode.
3. Enter the service mode and select the service No. "S05".
4. Adjust the data of service No. "S05" so that the outermost line on the screen be straight.

### Horizontal Position Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Set to standard setting mode.
3. Enter the service mode and select the service No. "S15".
4. Adjust so that the left and right overscans are equal to each other.

### Horizontal Size Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Set to standard setting mode.
3. Enter the service mode and select the service No. "S04".
4. Vary the data of service No. "S04" to obtain the best horizontal size.

### Trapezoidal Distortion Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Set to standard setting mode.
3. Enter the service mode and select the service No. "S07".
4. Adjust so that the leftmost and rightmost vertical lines are parallel to each other.

### Corner Distortion Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Set to standard setting mode.
3. Enter the service mode and select the service No. "S06".
4. Adjust so that the vertical lines should be straight.

### Caption Position Adjustment (Horizontal)

1. Receive a good local channel.
2. Enter the service mode and select the service No. "S40".
3. A black text box appears on the screen. (see **Figure B** below)
4. Adjust "S40" data value so that text box is positioned in the center of the screen.

### Sharpness Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "S13".
3. Adjust data value to "05" (center of data range).

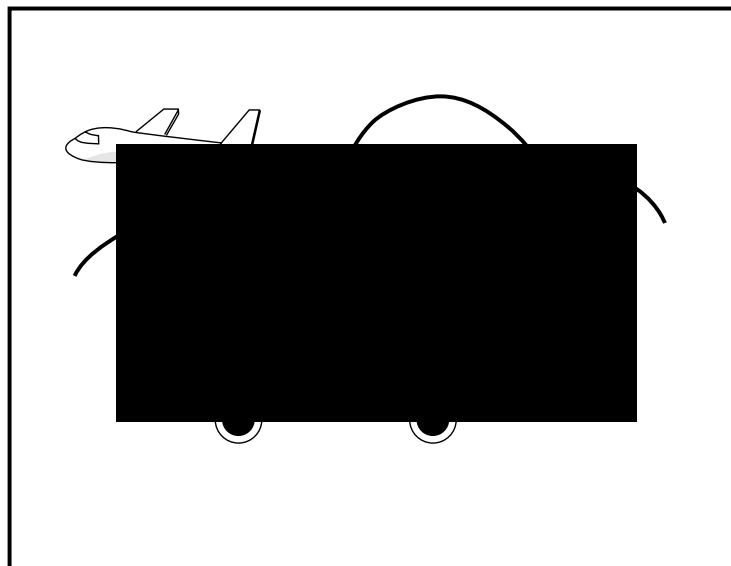


Figure B.

## ■ MTS ADJUSTMENT

### MTS Level Adjustment

1. Feed the following monaural signal to pin (14) of IC3001.  
Monaural signal : 300Hz, 245mVrms
2. Connect the rms voltmeter to pin (39) of IC3001.
3. Enter the service mode and select the service No. "M01".
4. Adjust the data so that the rms voltmeter reads.  
Spec :  $490 \pm 10$  mVrms.

### MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100 $\mu$ F, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service No. "M02".
5. Adjust the data so that the frequency counter reads.  
Spec :  $62.94 \pm 0.75$  kHz.

### Filter Adjustment

1. Feed the following stereo pilot signal to pin (14) of IC3001 .  
Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service No. "M03".
3. Adjust the data until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

### Separation Adjustment

1. Connect the rms voltmeter to pin (39) of IC3001.
2. Receive the following composite stereo signal 1.  
Composite stereo signal: 30% modulation, left channel only, noise reduction on, 300Hz
3. Enter the service mode and select the service No. "M04".
4. Adjust the data until the AC voltage reading of the rms voltmeter is minimum.
5. Receive the following composite stereo signal 2.  
Stereo signal: 30% modulation, left channel only, noise reduction on, 3kHz
6. Enter the service mode and select the service No. "M05".
7. Adjust the data until the AC voltage reading of the rms voltmeter is minimum.
8. Take the above steps 1 thru 7 again for fine adjustment.

## ■ P-IN-P ADJUSTMENT

### P-IN-P Y LEVEL Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "P01".
3. Adjust "P01" data value to obtain normal contrast level.

### P-IN-P TINT Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "P02".
3. Adjust data value to "37".

### P-IN-P COLOR Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position.
3. Enter the service mode and select the service No. "P03".
4. Adjust "P03" data value to obtain normal color level.

### P-IN-P Y-OFF SET Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "P04".
3. Adjust data value to "09".

### P-IN-P H-POSITION Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service No. "P05".
3. Adjust data value to "10".

### P-IN-P BURST GATE PULSE (for MAIN)

1. Receive a good local channel.
2. Enter the service mode and select the service No. "P06".
3. Adjust data value to "00".

### P-IN-P FREE RUN

1. Receive a good local channel.
2. Enter the service mode and select the service No. "P07".
3. Adjust data value to "11".

# CHASSIS LAYOUT

H

G

F

E

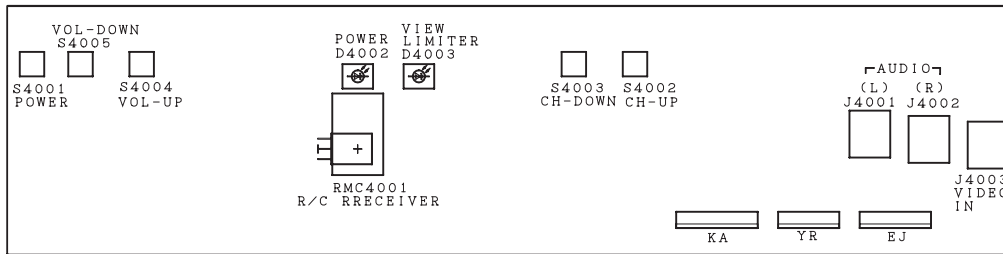
D

C

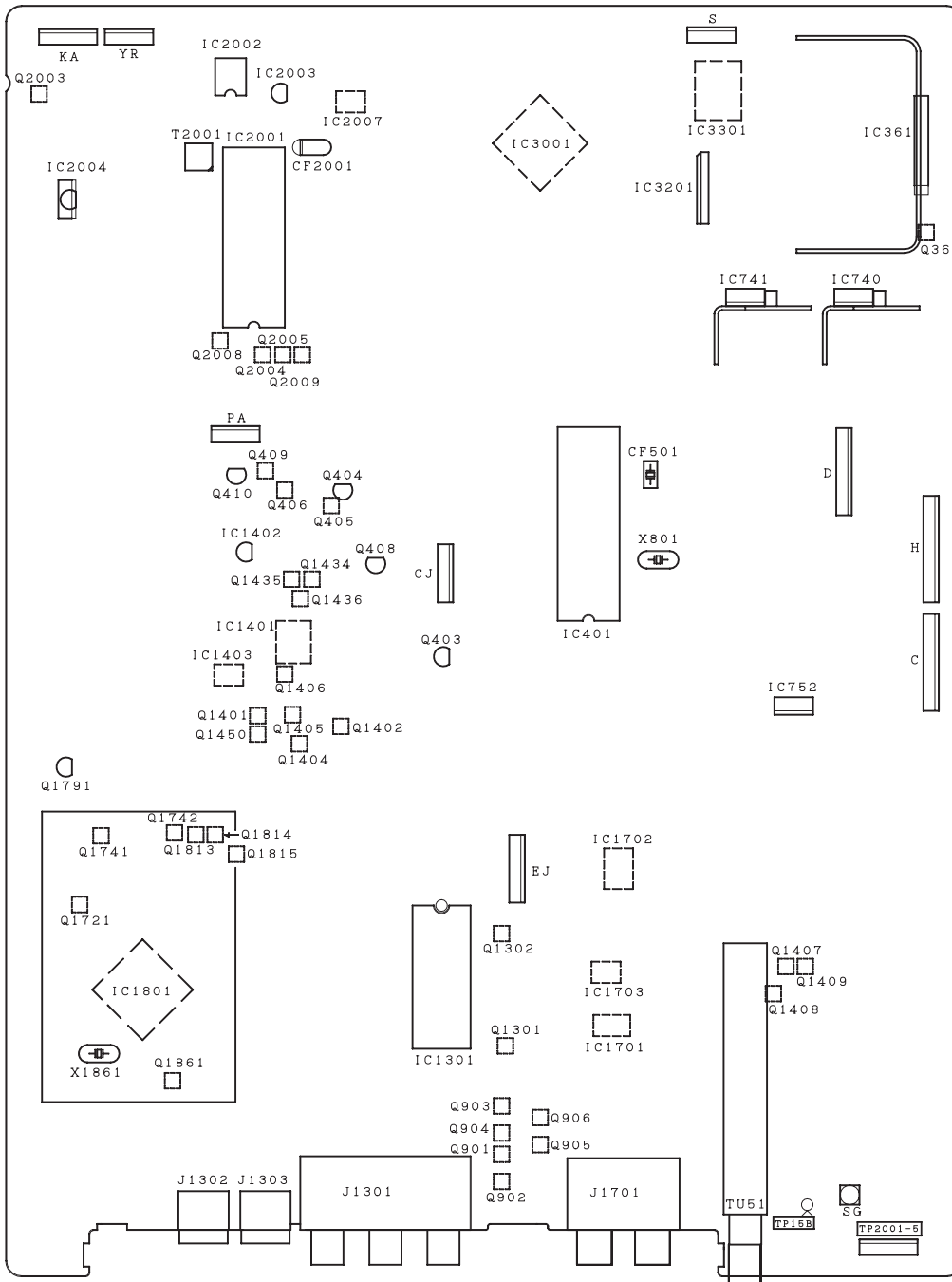
B

A

## PWB-F



## PWB-A



1

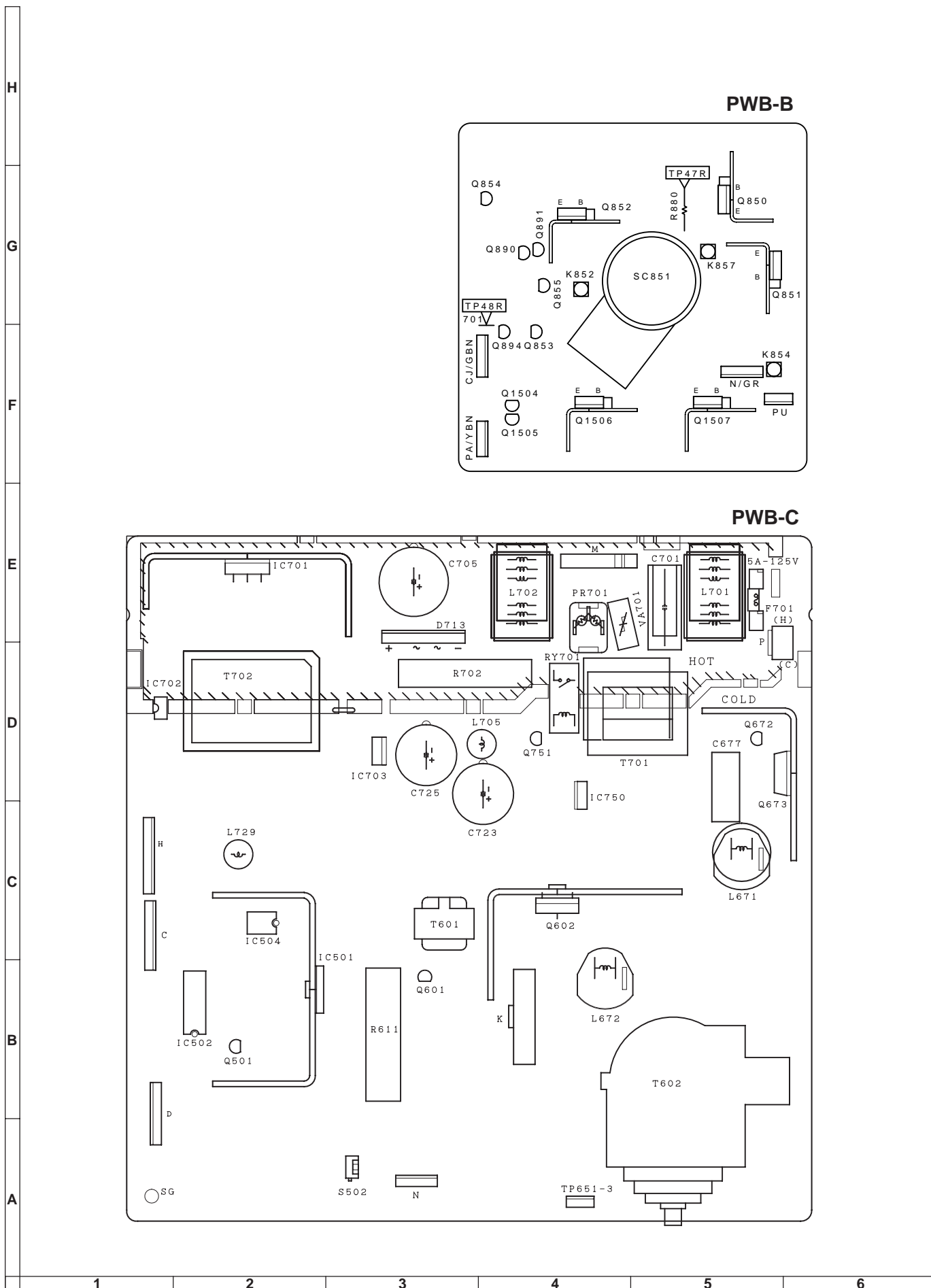
2

3

4

5

6



# DESCRIPTION OF SCHEMATIC DIAGRAM

## NOTES:

1. The unit of resistance "ohm" is omitted.  
( $K=k\Omega=1000\Omega$ ,  $M=M\Omega$ )
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors are  $\mu F$ , unless otherwise noted.  
( $P=pF=\mu\mu F$ )
4. (G) indicates  $\pm 2\%$  tolerance may be used.
5.  $\perp$  indicates line isolated ground.
6.  $\nabla$  indicates hot ground.

## VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 $\mu$  V B & W or Color signal.

## WAVEFORM MEASUREMENT CONDITIONS:

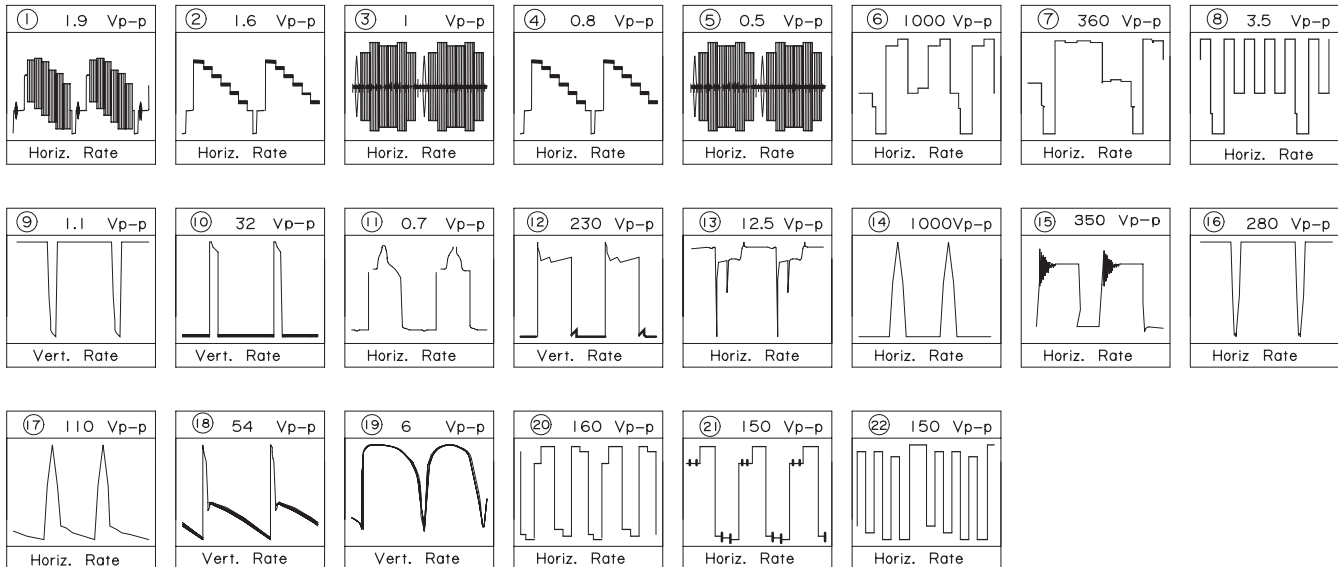
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  $\bigcirc \blacktriangleright$  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

$\triangle$  AND SHADED (  ) COMPONENTS = SAFETY RELATED PARTS.

$\blacktriangle$  MARK= X-RAY RELATED PARTS.

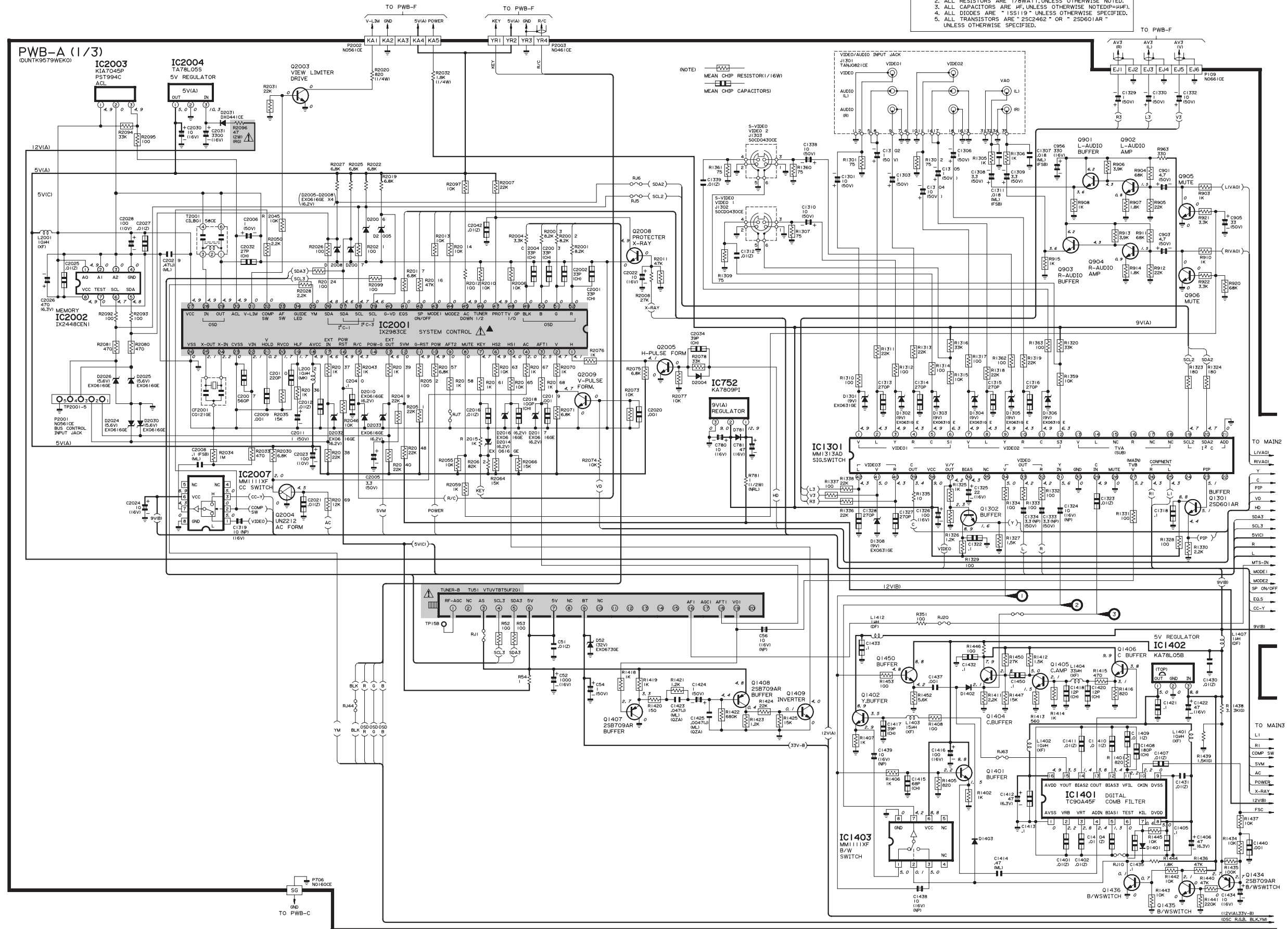
This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

## WAVE FORMS



NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED  
(K=1000 OHMS, M=MEGAOHM).

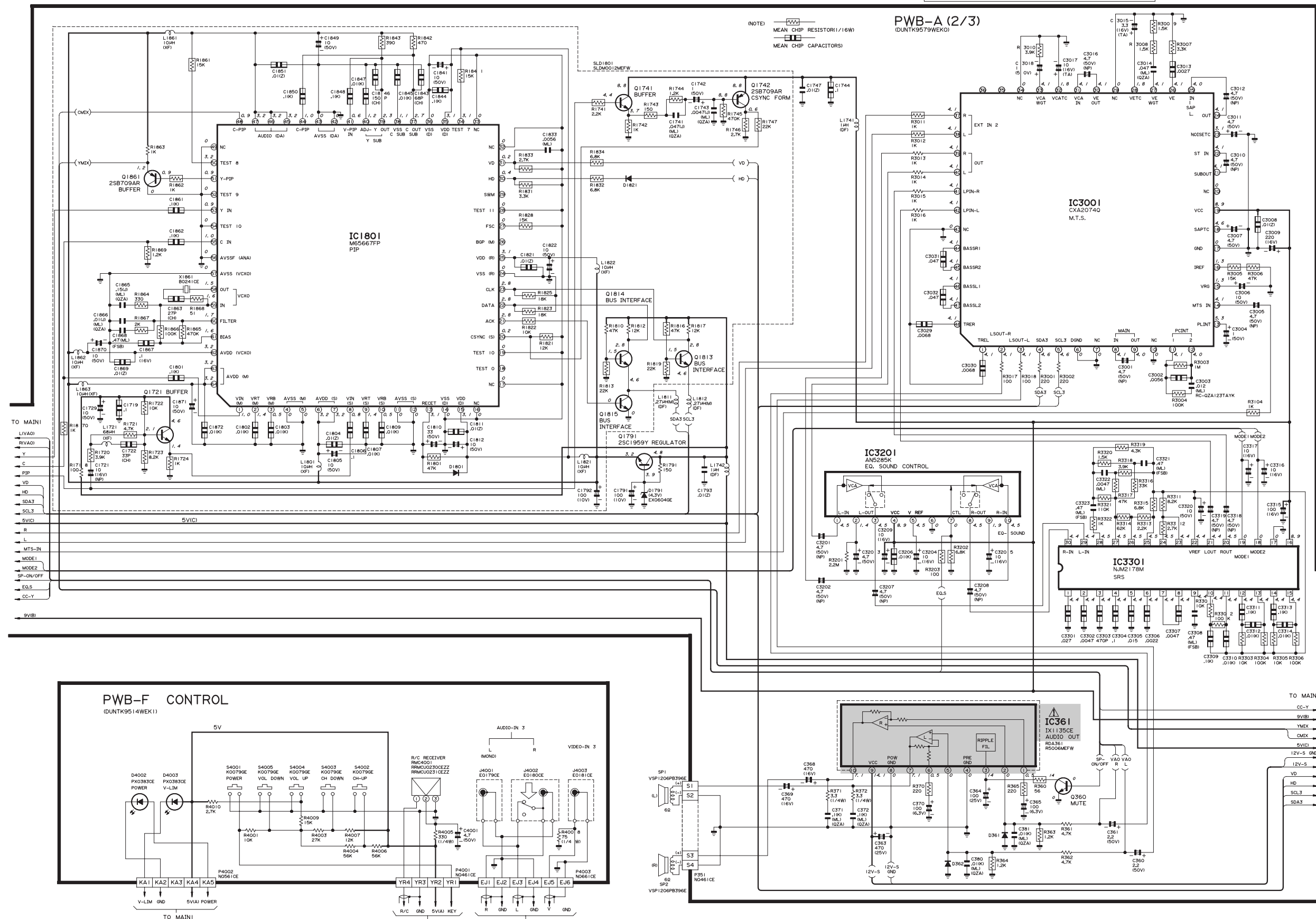
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE JF, UNLESS OTHERWISE NOTED (P=PPF).
4. ALL DIODES ARE "1SS119" UNLESS OTHERWISE SPECIFIED.
5. ALL TRANSISTORS ARE "2SC2462" OR "2SD601AR" UNLESS OTHERWISE SPECIFIED.



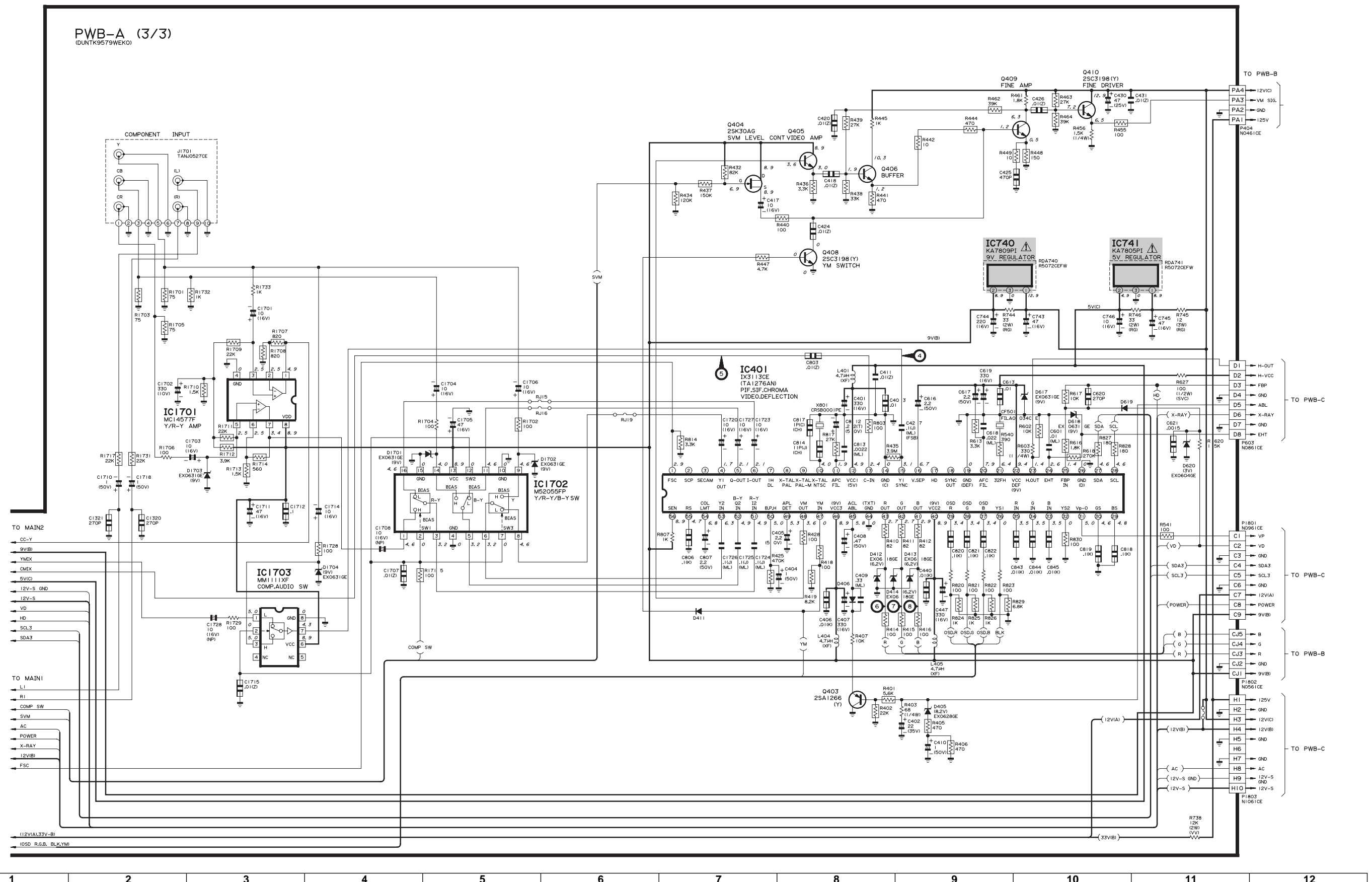


NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED  
(K=1000 OHMS, M=MEGAOHM).

2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE JF, UNLESS OTHERWISE NOTED (P=PF).
4. ALL DIODES ARE "1S1119" UNLESS OTHERWISE SPECIFIED.
5. ALL TRANSISTORS ARE "2SC2462" OR "2SD601AR" UNLESS OTHERWISE SPECIFIED.

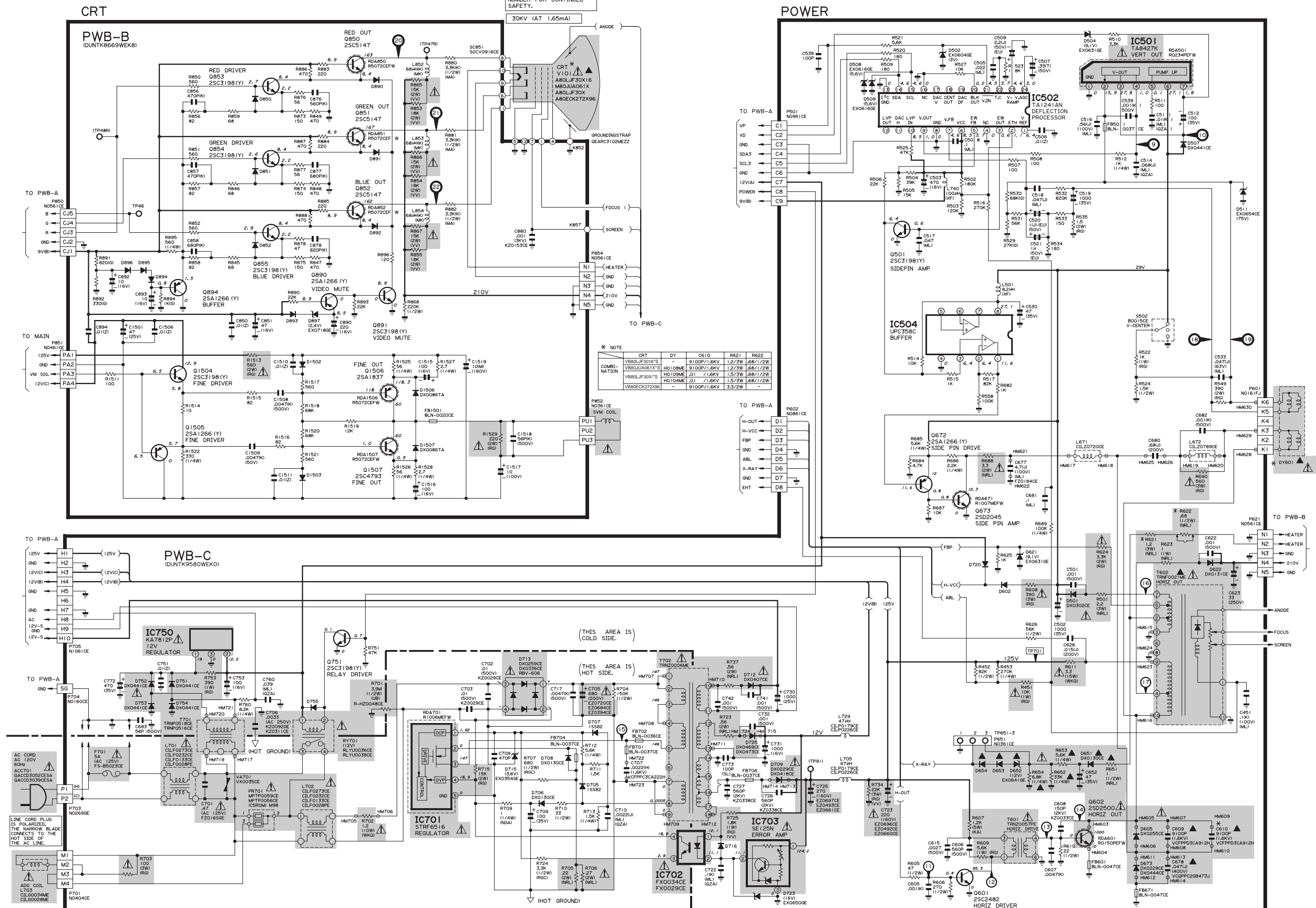


NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED  
(K=1000 OHMS, M=MEGAOHM).  
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.  
3. ALL CAPACITORS ARE  $\mu F$ , UNLESS OTHERWISE NOTED ( $\mu = \mu F$ ).  
4. ALL DIODES ARE "1SS119" UNLESS OTHERWISE SPECIFIED.  
5. ALL TRANSISTORS ARE "2SC2462" OR "2SD601AR"  
UNLESS OTHERWISE SPECIFIED.

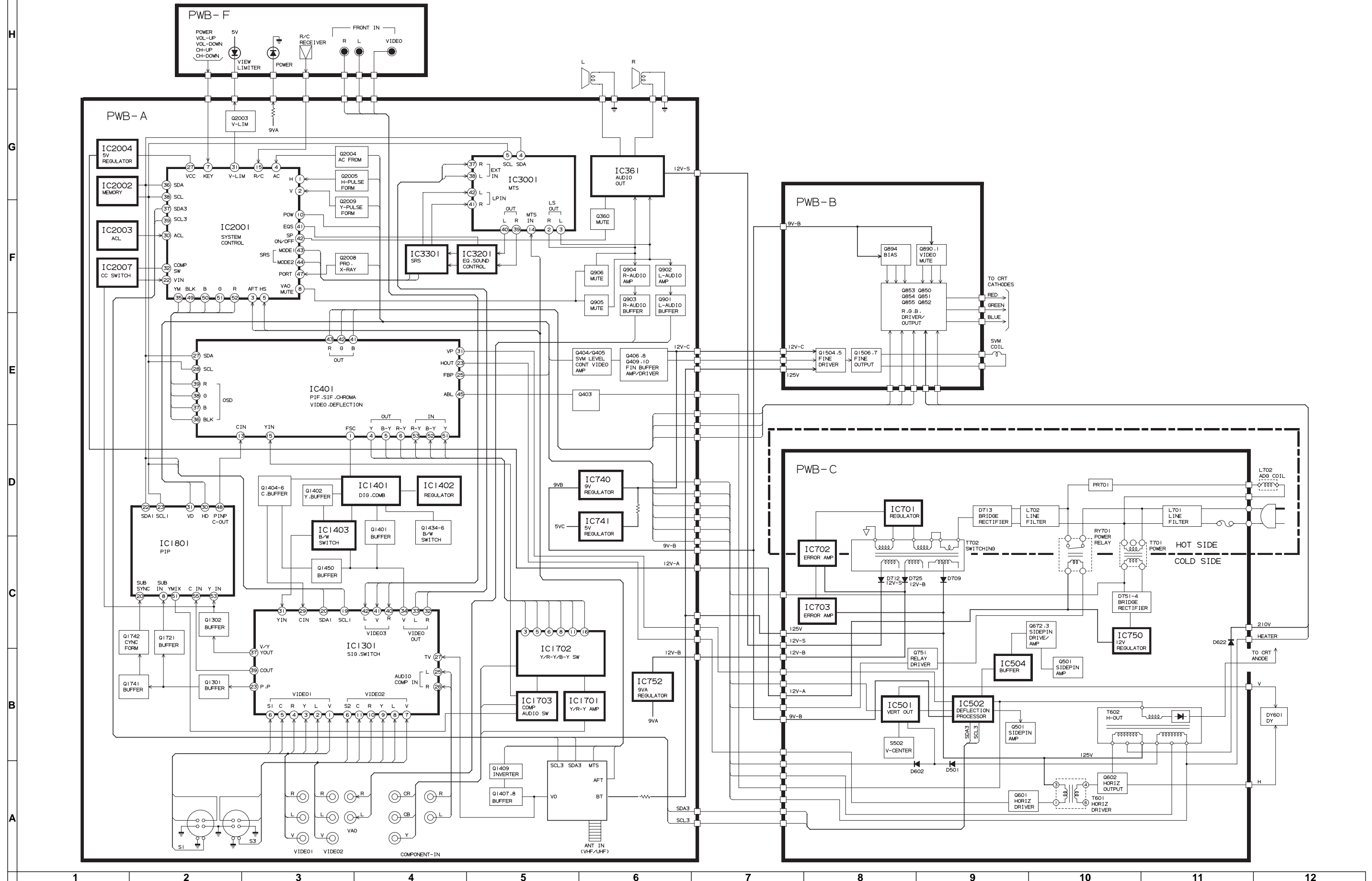


NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED  
(K=1000 OHMS, M=MEGAOHM).

2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE JF, UNLESS OTHERWISE NOTED (JF=JF).
4. ALL DIODES ARE "1SS119" UNLESS OTHERWISE SPECIFIED.
5. ALL TRANSISTORS ARE "2SC2462" OR "2SD601AR"  
UNLESS OTHERWISE SPECIFIED.

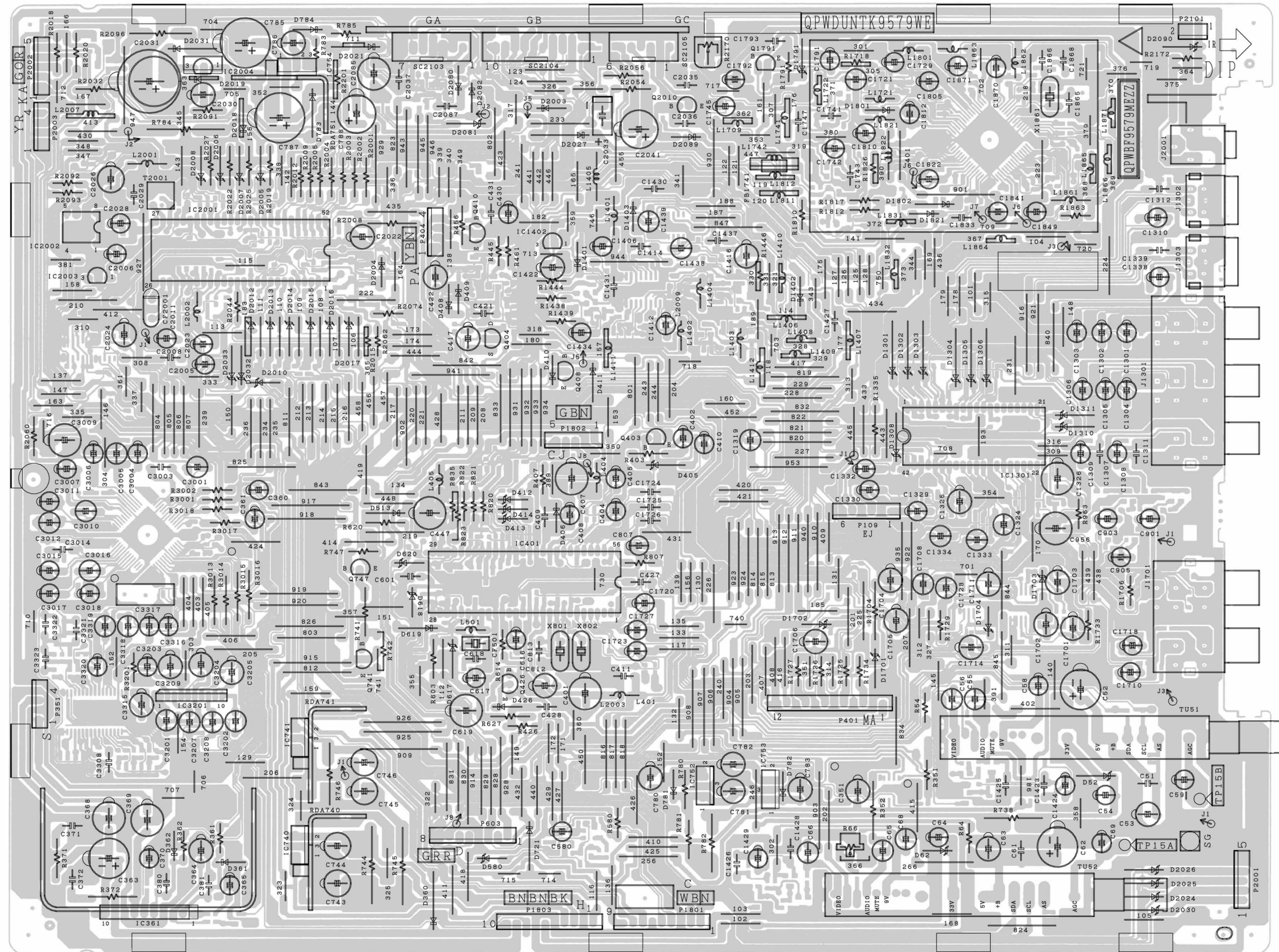


## BLOCK DIAGRAM



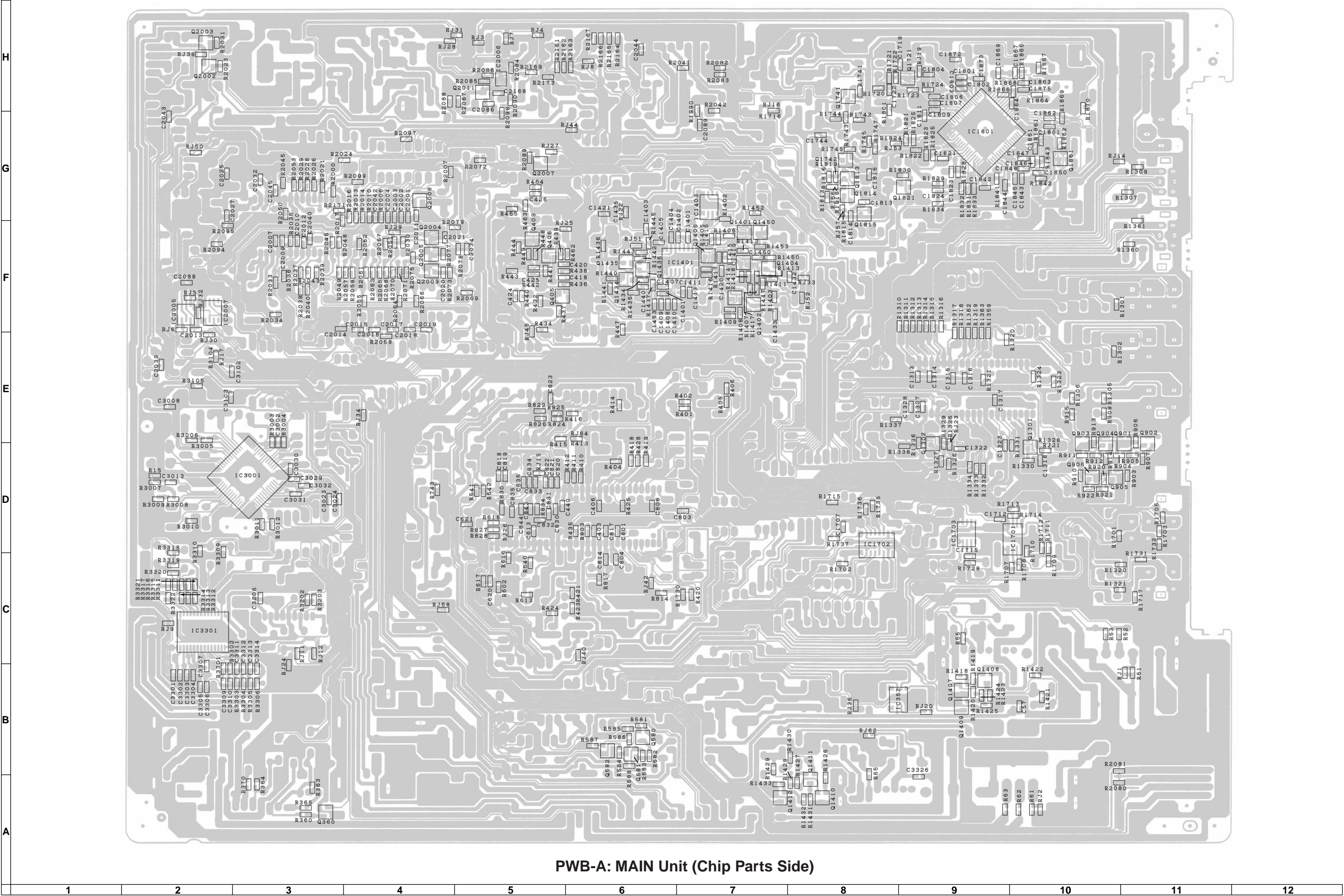


## PRINTED WIRING BOARD ASSEMBLIES



PWB-A: MAIN Unit (Wiring Side)







	H	G	F	E	D	C	B	A				
	<div data-bbox="326 197 683 1622"> <p><b>PWB-F: CONTROL Unit (Wiring Side)</b></p> </div> <div data-bbox="817 197 2128 1512"> <p><b>PWB-C: POWER Unit (Wiring Side)</b></p> </div> <div data-bbox="2206 197 2890 866"> <p><b>PWB-B: CRT Unit (Wiring Side)</b></p> </div>											
	1	2	3	4	5	6	7	8	9	10	11	12



# REPLACEMENT PARTS LIST

**SAFETY NOTE :** Components marked with a (  $\Delta$  ) have special characteristics important to safety. Before replacing any of these components, read carefully the SAFETY NOTICE on page 3 of the Service Manual. Components marked with an (  $\blacktriangle$  ) are related to X-Ray Protection circuit.

## "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
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## PICTURE TUBE

▲▲ V101	VB80LJF3016*S	M	Picture Tube (I.T.C.)	DC
	or			
	VB80JUA061X*S			
	or			
	VB80LJF30X/*S			
	or			
	VB80ECK272X96	(I.T.C.)		
▲▲ DY601	RCiLH0108MEZZ	M	Deflection Yoke	
	or			
	RCiLH0109MEZZ			
	or			
	RCiLH0104MEZZ			
▲ L703	RCiLG0034MEZZ	M	Degaussing Coil	AU
	or			
	RCiLG0028MEZZ			
	MSPRT0002MEZZ	M	Spring for CRT	AA
	QEARC3102MEZZ	M	Grounding Strap	AH

	CRT	DY	C610	R621	R622
COMBI-NATION	VB80LJF3016*S	—	9100P/1.6kV	1.2/3W	.68/1/2W
	VB80JUA061X*S	H0108ME	9100P/1.6kV	1.2/3W	.68/1/2W
	VB80LJF30X/*S	H0109ME	.01/1.6kV	1.5/3W	.68/1/2W
		H0104ME	.01/1.6kV	1.5/3W	.68/1/2W
	VB80ECK272X96	—	.01/1.6kV	1.5/3W	—

— End of PICTURE TUBE —

Ref. No. Part No. ★ Description Code

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A	DUNTK9579WEK0	—	MAIN Unit	—
PWB-B	DUNTK8669WEK8	—	CRT Unit	—
PWB-C	DUNTK9580WEK0	—	POWER Unit	—
PWB-F	DUNTK9514WEK1	—	CONTROL Unit	—

— End of PRINTED WIRING BOARD ASSEMBLIES —

## PWB-A: DUNTK9579WEK0 MAIN UNIT

### TUNER

**NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY NOT INDEPENDENTLY.**

▲ TU51	VTUVTBT5UF201	M	Tuner	BB
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### INTEGRATED CIRCUITS

△	IC361	RH-iX1135CEZZ	J	LA4261	AH
	IC401	RH-iX3113CEZZ	J	TA1276AN	AZ
△	IC740	VHiKA7809PI-1	R	KA7809PI	AE
△	IC741	VHIKA7805PI-1	R	KA7805PI	AE
	IC752	VHIKA7809PI-1	R	KA7809PI	AE
	IC1301	VHiMM1313AD-1	J	MM1313AD	AP
	IC1401	VHiTC90A45F-1	J	TC90A45F	AM
	IC1402	VHiKA78L05B-1	J	KA78L05BP	AE
	IC1403	VHiMM1111XF1E	J	MM1111XFBE	AE
	IC1701	VHiMC14577F-1	J	MC14577BF	AG
	IC1702	VHiM52055FP-1	J	M52055FP	AH
	IC1703	VHiMM1111XF1E	J	MM1111XFBE	AE
	IC1801	VHiM65667FP-1	M	M65667FP	BB
▲△	IC2001	RH-iX2983CEZZ	M	I.C.	AY
	IC2002	RH-iX2448CEN1	J	ST24C02B6	AN
	IC2003	VHiKiA7045P-1	J	KIA7045P	AD
	IC2004	VHiTA78L05S-1	J	TA78L05S	AC
	IC2007	VHiMM1111XF1E	J	MM1111XFBE	AE
	IC3001	VHiCXA2074Q-1	J	CXA2074Q	AY
	IC3201	VHiAN5285K/-1	J	AN5285K	AP
	IC3301	VHiNJM2178M-1	J	NJM2178M	AR

### TRANSISTORS

You can substitute "VS2SC2642-C-1" for "VS2SD601AR/-1".

Q360	VS2SD601AR/-1	J	2SD601	AC
Q403	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
Q404	VS2SK30AG//2E	J	2SK30AG	AD
Q405	VS2SD601AR/-1	J	2SD601	AC
Q406	VS2SD601AR/-1	J	2SD601	AC
Q408	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
Q409	VS2SD601AR/-1	J	2SD601	AC
Q410	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
Q901	VS2SD601AR/-1	J	2SD601	AC

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>				
<b>MAIN UNIT (Continued)</b>				
Q902	VS2SD601AR/-1	J	2SD601	AC
Q903	VS2SD601AR/-1	J	2SD601	AC
Q904	VS2SD601AR/-1	J	2SD601	AC
Q905	VS2SD601AR/-1	J	2SD601	AC
Q906	VS2SD601AR/-1	J	2SD601	AC
Q1301	VS2SD601AR/-1	J	2SD601	AC
Q1302	VS2SD601AR/-1	J	2SD601	AC
Q1401	VS2SD601AR/-1	J	2SD601	AC
Q1402	VS2SD601AR/-1	J	2SD601	AC
Q1404	VS2SD601AR/-1	J	2SD601	AC
Q1405	VS2SD601AR/-1	J	2SD601	AC
Q1406	VS2SD601AR/-1	J	2SD601	AC
Q1407	VS2SB709AR/-1	J	2SB709	AC
Q1408	VS2SB709AR/-1	J	2SB709	AC
Q1409	VS2SD601AR/-1	J	2SD601	AC
Q1434	VS2SB709AR/-1	J	2SB709	AC
Q1435	VS2SD601AR/-1	J	2SD601	AC
Q1436	VS2SD601AR/-1	J	2SD601	AC
Q1450	VS2SD601AR/-1	J	2SD601	AC
Q1721	VS2SD601AR/-1	J	2SD601	AC
Q1741	VS2SD601AR/-1	J	2SD601	AC
Q1742	VS2SB709AR/-1	J	2SB709	AC
Q1791	VS2SC1959Y/1E	J	2SC1959	AC
Q1813	VS2SD601AR/-1	J	2SD601	AC
Q1814	VS2SD601AR/-1	J	2SD601	AC
Q1815	VS2SD601AR/-1	J	2SD601	AC
Q1861	VS2SB709AR/-1	J	2SB709	AC
Q2003	VS2SD601AR/-1	J	2SD601	AC
Q2004	VSUN2212///-1	J	UN2212	AA
Q2005	VS2SD601AR/-1	J	2SD601	AC
Q2008	VS2SD601AR/-1	J	2SD601	AC
Q2009	VS2SD601AR/-1	J	2SD601	AC

**DIODES**

D52	RH-EX0673GEZZ	J	Zener Diode, 32V	AB
D361	VHD1SS119//--1	J	Diode	AB
D362	VHD1SS119//--1	J	Diode	AB
D405	RH-EX0628GEZZ	J	Zener Diode, 8.2V	AC
D406	VHD1SS119//--1	J	Diode	AB
D411	VHD1SS119//--1	J	Diode	AB
D412	RH-EX0618GEZZ	J	Zener Diode, 6.2V	AA
D413	RH-EX0618GEZZ	J	Zener Diode, 6.2V	AA
D414	RH-EX0618GEZZ	J	Zener Diode, 6.2V	AA
D617	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D618	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D619	VHD1SS119//--1	J	Diode	AB
D620	RH-EX0604GEZZ	J	Zener Diode, 3V	AB
D781	VHD1SS119//--1	J	Diode	AB
D1301	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1302	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1303	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1304	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1305	RH-EX0631GEZZ	J	Zener Diode, 9V	AA

Ref. No.	Part No.	★	Description	Code
D1306	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1308	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1401	VHD1SS119//--1	J	Diode	AB
D1402	VHD1SS119//--1	J	Diode	AB
D1403	VHD1SS119//--1	J	Diode	AB
D1701	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1702	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1703	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1704	RH-EX0631GEZZ	J	Zener Diode, 9V	AA
D1791	RH-EX0604GEZZ	J	Zener Diode, 4.3V	AB
D1801	VHD1SS119//--1	J	Diode	AB
D1821	VHD1SS119//--1	J	Diode	AB
D2004	VHD1SS119//--1	J	Diode	AB
D2005	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2006	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2007	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2008	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2010	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2014	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2016	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2017	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2024	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA
D2025	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA
D2026	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA
D2030	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA
D2031	RH-DX0441CEZZ	J	Diode	AC
D2032	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA
D2033	RH-EX0616GEZZ	J	Zener Diode, 6.2V	AA

**PACKAGED CIRCUITS**

X801	RCRSB0001PEZZ	R	Crystal	AL
X1861	RCRSB0241CEZZ	M	Crystal	AE

**FILTERS**

CF501	RFiLA0034CEZZ	J	Filter	AD
CF2001	RFiLC0121GEZZ	J	Filter	AD

**COILS**

L401	VP-XF4R7K0000	J	Peaking 4.7μH	AB
L404	VP-XF4R7K0000	J	Peaking 4.7μH	AB
L405	VP-XF4R7K0000	J	Peaking 4.7μH	AB
L1401	VP-XF100K0000	J	Peaking 10μH	AB
L1402	VP-XF100K0000	J	Peaking 10μH	AB
L1403	VP-XF150K0000	J	Peaking 15μH	AB
L1404	VP-XF330K0000	J	Peaking 33μH	AB
L1407	VP-DF1R0K0000	J	Peaking 1μH	AB
L1412	VP-DF1R0K0000	J	Peaking 1μH	AB
L1721	VP-XF680K0000	J	Peaking 68μH	AB
L1741	VP-DF1R0K0000	J	Peaking 1μH	AB
L1742	VP-DF1R0K0000	J	Peaking 1μH	AB
L1801	VP-XF100K0000	J	Peaking 10μH	AB
L1811	VP-DFR27M0000	J	Peaking 0.27μH	AB
L1812	VP-DFR27M0000	J	Peaking 0.27μH	AB
L1821	VP-XF100K0000	J	Peaking 10μH	AB
L1822	VP-XF100K0000	J	Peaking 10μH	AB
L1861	VP-XF100K0000	J	Peaking 10μH	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>									
<b>MAIN UNIT (Continued)</b>									
L1862	VP-XF100K0000	J	Peaking 10μH	AB	C621	VCKYCY1HB152K	J	1500p 50V Ceramic	AA
L1863	VP-XF100K0000	J	Peaking 10μH	AB	C743	VCEA0A1CW476M	J	47 16V EL.	AB
L2001	VP-XF100K0000	J	Peaking 10μH	AB	C744	VCEA0A1CW227M	J	220 16V EL.	AC
L2002	VP-MK100K0000	J	Peaking 10μH	AB	C745	VCEA0A1CW476M	J	47 16V EL.	AB
T2001	RCiLB0158CEZZ	M	Oscillation Coil	AC	C746	VCEA0A1CW106M	J	10 16V EL.	AB
<b>CAPACITORS</b>					C780	VCEA0A1CW106M	J	10 16V EL.	AB
<i>[EL... Electrolytic]</i>					C781	VCEA0A1CW476M	J	47 16V EL.	AB
C51	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA	C803	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C52	VCEA0A1CW108M	J	1000 16V EL.	AD	C806	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C54	VCEA0A1HW105M	J	1 50V EL.	AB	C807	VCEA0A1HW225M	J	2.2 50V EL.	AB
C56	VCE9GA1CW106M	J	10 16V EL. (N.P)	AB	C812	VCEAGA1HW224T	J	0.22 50V EL.	AB
C360	VCEA0A1HW225M	J	2.2 50V EL.	AB	C813	VCQYTA1HM222J	J	2200p 50V Mylar	AA
C361	VCEA0A1HW225M	J	2.2 50V EL.	AB	C814	VCCCCY1HH110J	J	11p 50V Ceramic	AA
C363	VCEA0A1EW477M	J	470 25V EL.	AD	C817	VCCCCY1HH1R0C	J	1p 50V Ceramic	AA
C364	VCEA0A1EW107M	J	100 25V EL.	AC	C818	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C365	VCEA0A0JW107M	J	100 6.3V EL.	AB	C819	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C368	VCEA0A1CW477M	J	470 16V EL.	AC	C820	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C369	VCEA0A1CW477M	J	470 16V EL.	AC	C821	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C370	VCEA0A0JW107M	J	100 6.3V EL.	AB	C822	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C371	RC-QZA104TAYK	J	0.1 50V Mylar	AB	C843	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C372	RC-QZA104TAYK	J	0.1 50V Mylar	AB	C844	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C380	RC-QZA103TAYK	J	0.01 50V Mylar	AA	C845	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C381	RC-QZA103TAYK	J	0.01 50V Mylar	AA	C901	VCEA0A1HW475M	J	4.7 50V EL.	AB
C401	VCEA0A1CW337M	J	330 16V EL.	AC	C903	VCEA0A1HW475M	J	4.7 50V EL.	AB
C402	VCEA0A1VW226M	M	22 35V EL.	AA	C905	VCEA0A1HW336M	M	33 50V EL.	AA
C403	VCKYCY1EB103K	J	0.01 25V Ceramic	AA	C956	VCEA0A1CW337M	J	330 16V EL.	AC
C404	VCEA0A1HW105M	J	1 50V EL.	AB	C1301	VCEA0A1HW106M	J	10 50V EL.	AB
C405	VCEA0A1HW225M	J	2.2 50V EL.	AB	C1302	VCEA0A1HW105M	J	1 50V EL.	AB
C406	VCKYCY1EB103K	J	0.01 25V Ceramic	AA	C1303	VCEA0A1HW105M	J	1 50V EL.	AB
C407	VCEA0A1CW337M	J	330 16V EL.	AC	C1304	VCEA0A1HW106M	J	10 50V EL.	AB
C408	VCEA0A1HW474M	J	0.47 50V EL.	AB	C1305	VCEA0A1HW105M	J	1 50V EL.	AB
C409	VCFYSA1HB334J	J	0.33 50V Mylar	AB	C1306	VCEA0A1HW105M	J	1 50V EL.	AB
C410	VCEA0A1HW105M	J	1 50V EL.	AB	C1307	VCFYSA1HB183J	J	0.018 50V Mylar	AA
C411	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA	C1308	VCEA0A1HW335M	J	3.3 50V EL.	AB
C417	VCEA0A1CW106M	J	10 16V EL.	AB	C1309	VCEA0A1HW335M	J	3.3 50V EL.	AB
C418	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C1310	VCEA0A1HW106M	J	10 50V EL.	AB
C420	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C1311	VCFYSA1HB183J	J	0.018 50V Mylar	AA
C424	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C1312	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C425	VCKYCY1HB471K	J	470p 50V Ceramic	AA	C1313	VCKYCY1HB271K	J	270p 50V Ceramic	AA
C426	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C1314	VCKYCY1HB271K	J	270p 50V Ceramic	AA
C427	VCFYSA1HB104J	J	0.1 50V Mylar	AB	C1315	VCKYCY1HB271K	J	270p 50V Ceramic	AA
C430	VCEA0A1EW476M	J	47 25V EL.	AB	C1316	VCKYCY1HB271K	J	270p 50V Ceramic	AA
C431	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA	C1318	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C440	VCKYCY1EB103K	J	0.01 25V Ceramic	AA	C1319	VCE9GA1CW106M	J	10 16V EL. (N.P)	AB
C447	VCEA0A1CW337M	J	330 16V EL.	AC	C1320	VCKYCY1HB271K	J	270p 50V Ceramic	AA
C601	VCFYSA1HB103J	J	0.01 50V Mylar	AA	C1321	VCKYCY1HB271K	J	270p 50V Ceramic	AA
C613	VCKYCY1EB103K	J	0.01 25V Ceramic	AA	C1322	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C616	VCEA0A1HW225M	J	2.2 50V EL.	AB	C1323	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C617	VCEA0A1HW225M	J	2.2 50V EL.	AB	C1324	VCE9GA1CW106M	J	10 16V EL. (N.P)	AB
C618	VCFYSA1HB223J	J	0.022 50V Mylar	AA	C1325	VCEA0A1CW226M	J	22 16V EL.	AB
C619	VCEA0A1CW337M	J	330 16V EL.	AC	C1326	VCEA0A1CW107M	J	100 16V EL.	AC
C620	VCKYCY1HB271K	J	270p 50V Ceramic	AA	C1327	VCKYCY1HB271K	J	270p 50V Ceramic	AA
					C1328	VCKYCY1HB271K	J	270p 50V Ceramic	AA
					C1329	VCEA0A1HW105M	J	1 50V EL.	AB
					C1330	VCEA0A1HW105M	J	1 50V EL.	AB
					C1332	VCEA0A1HW106M	J	10 50V EL.	AB

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>				
<b>MAIN UNIT (Continued)</b>				
C1333	VCE9GA1HW335M	J 3.3	50V EL. (N.P)	AB
C1334	VCE9GA1HW335M	J 3.3	50V EL. (N.P)	AB
C1338	VCEA0A1HW106M	J 10	50V EL.	AB
C1339	VCKYPA1HF103Z	J 0.01	50V Ceramic	AA
C1401	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1402	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1404	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1405	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1406	VCEA0A0JW476M	J 47	6.3V EL.	AB
C1407	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1408	VCCCCY1HH181J	J 180p	50V Ceramic	AA
C1409	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1410	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1411	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1412	VCEA0A0JW476M	J 47	6.3V EL.	AB
C1413	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1414	VCFYSA1HB474J	J 0.47	50V Mylar	AC
C1415	VCCCCY1HH680J	J 68p	50V Ceramic	AA
C1416	VCEA0A1CW107M	J 100	16V EL.	AC
C1417	VCCCCY1HH390J	J 39p	50V Ceramic	AA
C1418	VCCCCY1HH120J	J 12p	50V Ceramic	AA
C1420	VCCCCY1HH120J	J 12p	50V Ceramic	AA
C1421	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1422	VCEA0A1CW476M	J 47	16V EL.	AB
C1423	RC-QZA473TAYJ	J 0.047	50V Mylar	AB
C1424	VCEA0A1HW105M	J 1	50V EL.	AB
C1425	RC-QZA472TAYJ	J 0.0047	50V Mylar	AB
C1430	VCKYPA1HF103Z	J 0.01	50V Ceramic	AA
C1431	VCKYPA1HF103Z	J 0.01	50V Ceramic	AA
C1432	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1433	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1434	VCEA0A1CW106M	J 10	16V EL.	AB
C1435	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1437	VCCSPA1HL102J	J 1000p	50V Ceramic	AA
C1438	VCE9GA1CW106M	J 10	16V EL.	AB
C1439	VCE9GA1CW106M	J 10	16V EL.	AB
C1440	VCKYCY1HB102K	J 1000p	50V Ceramic	AA
C1450	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1701	VCEA0A1CW106M	J 10	16V EL.	AB
C1702	VCEA0A1AW337M	M 330	10V EL.	AB
C1703	VCEA0A1CW106M	J 10	16V EL.	AB
C1704	VCEA0A1CW106M	J 10	16V EL.	AB
C1705	VCEA0A1CW476M	J 47	16V EL.	AB
C1706	VCEA0A1CW106M	J 10	16V EL.	AB
C1707	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1708	VCE9GA1CW106M	J 10	16V EL.	AB
C1710	VCEA0A1HW105M	J 1	50V EL.	AB
C1711	VCEA0A1CW476M	J 47	16V EL.	AB
C1712	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1714	VCEA0A1CW106M	J 10	16V EL.	AB
C1715	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1718	VCEA0A1HW105M	J 1	50V EL.	AB
C1719	VCKYCY1CB104K	J 0.1	16V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C1720	VCEA0A1CW106M	J 10	16V EL.	AB
C1721	VCE9GA1CW106M	J 10	16V EL.	AB
C1722	VCCCCY1HH330J	J 33p	50V Ceramic	AA
C1723	VCEA0A1CW106M	J 10	16V EL.	AB
C1724	VCFYSA1HB104J	J 0.1	50V Mylar	AB
C1725	VCFYSA1HB104J	J 0.1	50V Mylar	AB
C1726	VCFYSA1HB104J	J 0.1	50V Mylar	AB
C1727	VCEA0A1CW106M	J 10	16V EL.	AB
C1728	VCE9GA1CW106M	J 10	16V EL.	AB
C1729	VCEA0A1HW106M	J 10	50V EL.	AB
C1741	RC-QZA473TAYJ	J 0.047	50V Mylar	AB
C1742	VCEA0A1HW105M	J 1	50V EL.	AB
C1743	RC-QZA472TAYJ	J 0.0047	50V Mylar	AB
C1744	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1747	VCKYPA1HF103Z	J 0.01	50V Ceramic	AA
C1791	VCEA0A1AW107M	J 100	10V EL.	AB
C1792	VCEA0A1AW107M	J 100	10V EL.	AB
C1793	VCKYPA1HF103Z	J 0.01	50V Ceramic	AA
C1801	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1802	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C1803	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C1804	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1805	VCEA0A1HW106M	J 10	50V EL.	AB
C1806	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1807	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C1809	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C1810	VCEA0A1HW336M	M 33	50V EL.	AA
C1811	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1812	VCEA0A1HW106M	J 10	50V EL.	AB
C1821	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1822	VCEA0A1HW106M	J 10	50V EL.	AB
C1833	RC-QZA562TAYJ	J 0.0056	50V Mylar	AB
C1841	VCEA0A1HW106M	J 10	50V EL.	AB
C1843	VCCCCY1HH680J	J 68p	50V Ceramic	AA
C1844	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1845	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C1846	VCCCCY1HH151J	J 150p	50V Ceramic	AA
C1847	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C1848	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1849	VCEA0A1HW106M	J 10	50V EL.	AB
C1850	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1851	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1861	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1862	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1863	VCCCCY1HH270J	J 27p	50V Ceramic	AA
C1865	RC-QZA154TAYJ	J 0.15	50V Mylar	AC
C1866	RC-QZA103TAYJ	J 0.01	50V Mylar	AB
C1867	VCKYCY1CB104K	J 0.1	16V Ceramic	AB
C1868	VCFYSA1HB474J	J 0.47	50V Mylar	AC
C1869	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C1870	VCEA0A1HW106M	J 10	50V EL.	AB
C1871	VCEA0A1HW106M	J 10	50V EL.	AB
C1872	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C2001	VCCCCY1HH330J	J 33p	50V Ceramic	AA
C2002	VCCCCY1HH330J	J 33p	50V Ceramic	AA
C2003	VCCCCY1HH330J	J 33p	50V Ceramic	AA



Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>									
<b>MAIN UNIT (Continued)</b>									
C2004	VCCCCY1HH330J	J	33p 50V Ceramic	AA	C3204	VCEA0A1CW106M	J	10 16V EL.	AB
C2005	VCEA0A1HW335M	J	3.3 50V EL.	AB	C3205	VCEA0A1CW106M	J	10 16V EL.	AB
C2006	VCEA0A1HW105M	J	1 50V EL.	AB	C3206	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C2007	VCKYCY1HB561K	J	560p 50V Ceramic	AA	C3207	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C2008	VCFYSA1HB104J	J	0.1 50V Mylar	AB	C3208	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C2009	VCKYCY1HB102K	J	1000p 50V Ceramic	AA	C3209	VCEA0A1CW106M	J	10 16V EL.	AB
C2010	VCKYCY1HB221K	J	220p 50V Ceramic	AA	C3301	VCKYCY1CB273K	J	0.027 16V Ceramic	AA
C2011	VCEA0A1HW105M	J	1 50V EL.	AB	C3302	VCKYCY1HB472K	J	4700p 50V Ceramic	AA
C2012	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C3303	VCKYCY1HB471K	J	470p 50V Ceramic	AA
C2016	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C3304	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C2018	VCCCCY1HH101J	J	100p 50V Ceramic	AA	C3305	VCKYCY1EB153K	J	0.015 25V Ceramic	AA
C2019	VCKYCY1HB102K	J	1000p 50V Ceramic	AA	C3306	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C2020	VCKYCY1HB102K	J	1000p 50V Ceramic	AA	C3307	VCKYCY1HB472K	J	4700p 50V Ceramic	AA
C2021	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C3308	VCFYSA1HB474J	J	0.47 50V Mylar	AC
C2022	VCEA0A1CW106M	J	10 16V EL.	AB	C3309	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C2023	VCEA0A1AW107M	J	100 10V EL.	AB	C3310	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C2024	VCEA0A1CW106M	J	10 16V EL.	AB	C3311	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C2025	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C3312	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C2026	VCEA0A0JW477M	J	470 6.3V EL.	AC	C3313	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C2027	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C3314	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C2028	VCEA0A1AW107M	J	100 10V EL.	AB	C3315	VCEA0A1CW107M	J	100 16V EL.	AC
C2029	VCFYSA1HB474J	J	0.47 50V Mylar	AC	C3316	VCEA0A1CW106M	J	10 16V EL.	AB
C2030	VCEA0A1CW106M	J	10 16V EL.	AB	C3317	VCEA0A1CW106M	J	10 16V EL.	AB
C2031	VCEA0A1CW338M	M	3300 16V EL.	AE	C3318	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C2032	VCCCCY1HH270J	J	27p 50V Ceramic	AA	C3319	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C2034	VCCCCY1HH390J	J	39p 50V Ceramic	AA	C3320	VCEA0A1HW106M	J	10 50V EL.	AB
C2040	VCKYCY1CB104K	J	0.1 16V Ceramic	AB	C3321	VCFYSA1HB474J	J	0.47 50V Mylar	AC
C2042	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C3322	RC-QZA472TAYK	J	0.0047 50V Mylar	AA
C3001	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	C3323	VCFYSA1HB474J	J	0.47 50V Mylar	AC
C3002	VCKYCY1HB562K	J	5600p 50V Ceramic	AA	<b>RESISTORS</b>				
C3003	RC-QZA123TAYK	J	0.01 50V Mylar	AA	<i>[M-Ox... Metal Oxide, M-Film... Metal Film]</i>				
C3004	VCEA0A1HW105M	J	1 50V EL.	AB	RJ1	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3005	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	RJ3	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3006	VCEA0A1HW106M	J	10 50V EL.	AB	RJ4	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3007	VCEA0A1HW475M	J	4.7 50V EL.	AB	RJ5	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3008	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	RJ6	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3009	VCEA0A1CW227M	J	220 16V EL.	AC	RJ7	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3010	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	RJ8	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3011	VCEA0A1HW475M	J	4.7 50V EL.	AB	RJ9	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3012	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	RJ15	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3013	VCKYCY1HB272K	J	2700p 50V Ceramic	AA	RJ19	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3014	RC-QZA473TAYK	J	0.047 50V Mylar	AB	RJ20	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3015	VCSATA1CE335K	J	3.3 16V Tantalum	AC	RJ24	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3016	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	RJ25	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3017	VCSATA1CE106K	J	10 16V Tantalum	AD	RJ26	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3018	VCEA0A1HW105M	J	1 50V EL.	AB	RJ27	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3029	VCKYCY1HB682K	J	6800p 50V Ceramic	AA	RJ28	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3030	VCKYCY1HB682K	J	6800p 50V Ceramic	AA	RJ29	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3031	VCKYCY1CB473K	J	0.047 16V Ceramic	AA	RJ30	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3032	VCKYCY1CB473K	J	0.047 16V Ceramic	AA	RJ31	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3201	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	RJ32	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3202	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB	RJ33	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
C3203	VCEA0A1HW475M	J	4.7 50V EL.	AB	RJ34	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
					RJ36	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
					RJ40	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>				
<b>MAIN UNIT (Continued)</b>				
RJ42	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ44	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ45	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ50	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ51	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ52	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ53	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ56	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ57	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ58	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ63	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ64	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
R52	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R53	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R54	VRD-RA2BE1R0J	J 1	1/8W Carbon	AA
R351	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R360	VRS-CY1JF560J	J 56	1/16W M-Ox.	AA
R361	VRD-RA2BE472J	J 4.7k	1/8W Carbon	AA
R362	VRD-RA2BE472J	J 4.7k	1/8W Carbon	AA
R363	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA
R364	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA
R365	VRS-CY1JF221J	J 220	1/16W M-Ox.	AA
R370	VRS-CY1JF221J	J 220	1/16W M-Ox.	AA
R371	VRD-RA2EE3R3J	J 3.3	1/4W Carbon	AA
R372	VRD-RA2EE3R3J	J 3.3	1/4W Carbon	AA
R401	VRS-CY1JF562J	J 5.6k	1/16W M-Ox.	AA
R402	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R403	VRD-RA2EE680J	J 68	1/4W Carbon	AA
R405	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R406	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R407	VRD-RA2BE103J	J 10k	1/8W Carbon	AA
R410	VRS-CY1JF820J	J 82	1/16W M-Ox.	AA
R411	VRS-CY1JF820J	J 82	1/16W M-Ox.	AA
R412	VRS-CY1JF820J	J 82	1/16W M-Ox.	AA
R414	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R415	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R416	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R418	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R419	VRS-CY1JF822J	J 8.2k	1/16W M-Ox.	AA
R425	VRS-CY1JF474J	J 470k	1/16W M-Ox.	AA
R428	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R432	VRS-CY1JF823J	J 82k	1/16W M-Ox.	AA
R434	VRS-CY1JF124J	J 120k	1/16W M-Ox.	AA
R435	VRS-CY1JF395J	J 3.9M	1/16W M-Ox.	AA
R436	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA
R437	VRS-CY1JF154J	J 150k	1/16W M-Ox.	AA
R438	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA
R439	VRS-CY1JF273J	J 27k	1/16W M-Ox.	AA
R440	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R441	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R442	VRS-CY1JF100J	J 10	1/16W M-Ox.	AA
R444	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R445	VRD-RA2BE102J	J 1k	1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
R447	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
R448	VRS-CY1JF151J	J 150	1/16W M-Ox.	AA
R449	VRS-CY1JF100J	J 10	1/16W M-Ox.	AA
R455	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R456	VRD-RA2EE152J	J 1.5k	1/4W Carbon	AA
R461	VRD-RA2BE182J	J 1.8k	1/8W Carbon	AA
R462	VRS-CY1JF393J	J 39k	1/16W M-Ox.	AA
R463	VRS-CY1JF273J	J 27k	1/16W M-Ox.	AA
R464	VRS-CY1JF393J	J 39k	1/16W M-Ox.	AA
R540	VRS-CY1JF391J	J 390	1/16W M-Ox.	AA
R541	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R602	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R603	VRD-RA2EE331J	J 330	1/4W Carbon	AA
R613	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA
R616	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R617	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R618	VRS-CY1JF274J	J 270k	1/16W M-Ox.	AA
R620	VRD-RA2BE153J	J 15k	1/8W Carbon	AA
R627	VRS-SV2HC101J	J 100	1/2W M-Ox.	AA
R738	VRS-VV3DB123J	J 12k	2W M-Ox.	AA
R744	VRS-RG3DB330J	M 33	2W M-Ox.	AB
R745	VRS-RG3LB120J	M 12	3W M-Ox.	AB
R746	VRS-RG3DB330J	M 33	2W M-Ox.	AB
R781	VRN-RL2HC1R0J	M 1	1/2W M-Film	AA
R803	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R807	VRD-RA2BE102J	J 1k	1/8W Carbon	AA
R814	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA
R817	VRS-CY1JF273J	J 27k	1/16W M-Ox.	AA
R820	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R821	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R822	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R823	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R824	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R825	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R826	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R827	VRS-CY1JF181J	J 180	1/16W M-Ox.	AA
R828	VRS-CY1JF181J	J 180	1/16W M-Ox.	AA
R829	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R830	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R903	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R904	VRS-CY1JF683J	J 68k	1/16W M-Ox.	AA
R905	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R906	VRS-CY1JF392J	J 3.9k	1/16W M-Ox.	AA
R907	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R908	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R910	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R911	VRS-CY1JF683J	J 68k	1/16W M-Ox.	AA
R912	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R913	VRS-CY1JF392J	J 3.9k	1/16W M-Ox.	AA
R914	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R915	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R920	VRS-CY1JF683J	J 68k	1/16W M-Ox.	AA
R921	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA
R922	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA
R963	VRD-RA2BE331J	J 330	1/8W Carbon	AA
R1301	VRS-CY1JF750J	J 75	1/16W M-Ox.	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>									
<b>MAIN UNIT (Continued)</b>									
R1302	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA	R1422	VRS-CY1JF684J	J	680k 1/16W M-Ox.	AA
R1305	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1423	VRS-CY1JF122J	J	1.2k 1/16W M-Ox.	AA
R1306	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1424	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R1307	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA	R1425	VRS-CY1JF153J	J	15k 1/16W M-Ox.	AA
R1309	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA	R1434	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R1310	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1435	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA
R1311	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA	R1436	VRS-CY1JF473J	J	47k 1/16W M-Ox.	AA
R1312	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1437	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R1313	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA	R1438	VRD-RA2BE332G	J	3.3k 1/8W Carbon	AA
R1314	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1439	VRD-RA2BE152G	J	1.5k 1/8W Carbon	AA
R1315	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA	R1440	VRS-CY1JF473J	J	47k 1/16W M-Ox.	AA
R1316	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA	R1441	VRS-CY1JF224J	J	220k 1/16W M-Ox.	AA
R1317	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1442	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R1318	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA	R1443	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R1319	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA	R1444	VRD-RA2BE182J	J	1.8k 1/8W Carbon	AA
R1320	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA	R1445	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R1323	VRS-CY1JF181J	J	180 1/16W M-Ox.	AA	R1446	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R1324	VRS-CY1JF181J	J	180 1/16W M-Ox.	AA	R1447	VRS-CY1JF153J	J	15k 1/16W M-Ox.	AA
R1325	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1450	VRS-CY1JF273J	J	27k 1/16W M-Ox.	AA
R1326	VRS-CY1JF122J	J	1.2k 1/16W M-Ox.	AA	R1452	VRS-CY1JF562J	J	5.6k 1/16W M-Ox.	AA
R1327	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA	R1453	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R1328	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1701	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA
R1329	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1702	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R1330	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA	R1703	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA
R1331	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1704	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R1332	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1705	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA
R1333	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1706	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R1334	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1707	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA
R1335	VRD-RA2BE100J	J	10 1/8W Carbon	AA	R1708	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA
R1336	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA	R1709	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R1337	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1710	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA
R1338	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA	R1711	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R1359	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA	R1712	VRS-CY1JF392J	J	3.9k 1/16W M-Ox.	AA
R1360	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA	R1713	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA
R1361	VRS-CY1JF750J	J	75 1/16W M-Ox.	AA	R1714	VRS-CY1JF561J	J	560 1/16W M-Ox.	AA
R1362	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1715	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R1363	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1717	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R1401	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA	R1718	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R1402	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1720	VRS-CY1JF392J	J	3.9k 1/16W M-Ox.	AA
R1405	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA	R1721	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R1406	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1722	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R1407	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1723	VRS-CY1JF822J	J	8.2k 1/16W M-Ox.	AA
R1408	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R1724	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R1411	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA	R1728	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R1412	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA	R1729	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R1413	VRS-CY1JF561J	J	560 1/16W M-Ox.	AA	R1731	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R1414	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1732	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R1415	VRS-CY1JF471J	J	470 1/16W M-Ox.	AA	R1733	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R1416	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA	R1741	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R1418	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1742	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R1419	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	R1743	VRS-CY1JF151J	J	150 1/16W M-Ox.	AA
R1420	VRS-CY1JF151J	J	150 1/16W M-Ox.	AA	R1744	VRS-CY1JF122J	J	1.2k 1/16W M-Ox.	AA
R1421	VRS-CY1JF122J	J	1.2k 1/16W M-Ox.	AA	R1745	VRS-CY1JF474J	J	470k 1/16W M-Ox.	AA
					R1746	VRS-CY1JF272J	J	2.7k 1/16W M-Ox.	AA
					R1747	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
					R1791	VRD-RA2BE151J	J	150 1/8W Carbon	AA



Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>				
<b>MAIN UNIT (Continued)</b>				
R1801	VRS-CY1JF473J	J 47k	1/16W M-Ox.	AA
R1810	VRD-RA2BE473J	J 47k	1/8W Carbon	AA
R1812	VRD-RA2BE123J	J 12k	1/8W Carbon	AA
R1813	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R1816	VRS-CY1JF473J	J 47k	1/16W M-Ox.	AA
R1817	VRD-RA2BE123J	J 12k	1/8W Carbon	AA
R1819	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R1821	VRS-CY1JF123J	J 12k	1/16W M-Ox.	AA
R1822	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R1823	VRS-CY1JF183J	J 18k	1/16W M-Ox.	AA
R1825	VRS-CY1JF183J	J 18k	1/16W M-Ox.	AA
R1828	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R1831	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA
R1832	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R1833	VRS-CY1JF272J	J 2.7k	1/16W M-Ox.	AA
R1834	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R1841	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R1842	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R1843	VRS-CY1JF391J	J 390	1/16W M-Ox.	AA
R1861	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R1862	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R1863	VRD-RA2BE102J	J 1k	1/8W Carbon	AA
R1864	VRS-CY1JF331J	J 330	1/16W M-Ox.	AA
R1865	VRS-CY1JF474J	J 470k	1/16W M-Ox.	AA
R1866	VRS-CY1JF104J	J 100k	1/16W M-Ox.	AA
R1867	VRS-CY1JF202J	J 2.0k	1/16W M-Ox.	AA
R1868	VRS-CY1JF510J	M 51	1/16W M-Ox.	AA
R1869	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA
R1870	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2001	VRD-RA2BE822J	J 8.2k	1/8W Carbon	AA
R2002	VRD-RA2BE822J	J 8.2k	1/8W Carbon	AA
R2003	VRD-RA2BE822J	J 8.2k	1/8W Carbon	AA
R2004	VRD-RA2BE332J	J 3.3k	1/8W Carbon	AA
R2006	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2007	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2008	VRD-RA2BE273J	J 27k	1/8W Carbon	AA
R2010	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2011	VRS-CY1JF473J	J 47k	1/16W M-Ox.	AA
R2012	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R2013	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2014	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2015	VRD-RA2BE102J	J 1k	1/8W Carbon	AA
R2016	VRS-CY1JF473J	J 47k	1/16W M-Ox.	AA
R2017	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R2019	VRD-RA2BE682J	J 6.8k	1/8W Carbon	AA
R2020	VRD-RA2EE821J	J 820	1/4W Carbon	AA
R2021	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2022	VRD-RA2BE682J	J 6.8k	1/8W Carbon	AA
R2024	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2025	VRD-RA2BE682J	J 6.8k	1/8W Carbon	AA
R2026	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2027	VRD-RA2BE682J	J 6.8k	1/8W Carbon	AA
R2028	VRS-CY1JF222J	J 2.2k	1/16W M-Ox.	AA

Ref. No.	Part No.	★	Description	Code
R2030	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R2031	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2032	VRD-RA2EE182J	J 1.8k	1/4W Carbon	AA
R2033	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R2034	VRS-CY1JF105J	J 1M	1/16W M-Ox.	AA
R2035	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R2036	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2037	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2038	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2039	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2040	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2043	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2045	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2046	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2048	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2049	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2050	VRS-CY1JF222J	J 2.2k	1/16W M-Ox.	AA
R2051	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2052	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2055	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2057	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R2058	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2059	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2061	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2062	VRD-RA2BE823J	J 82k	1/8W Carbon	AA
R2063	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2064	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R2065	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2066	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R2067	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2068	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2069	VRS-CY1JF123J	J 12k	1/16W M-Ox.	AA
R2070	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2071	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R2073	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2074	VRD-RA2BE103J	J 10k	1/8W Carbon	AA
R2075	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R2076	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2077	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2078	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA
R2080	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R2081	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R2092	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R2093	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R2094	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA
R2095	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2096	VRS-RG3DB470J	M 47	2W M-Ox.	AA
R2097	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2099	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R3001	VRD-RA2BE221J	J 220	1/8W Carbon	AA
R3002	VRD-RA2BE221J	J 220	1/8W Carbon	AA
R3003	VRS-CY1JF105J	J 1M	1/16W M-Ox.	AA
R3004	VRS-CY1JF104J	J 100k	1/16W M-Ox.	AA
R3005	VRS-CY1JF153J	J 15k	1/16W M-Ox.	AA
R3006	VRS-CY1JF473J	J 47k	1/16W M-Ox.	AA
R3007	VRS-CY1JF332J	J 3.3k	1/16W M-Ox.	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9579WEK0</b>					SLD1801	PSLDM0012MEFW	M	Shield	AC
<b>MAIN UNIT (Continued)</b>						LHLDW1002PEZZ	R	Holder	AB
R3008	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA		LX-BZ3049GEFD	J	Screw	AA
R3009	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA	<b>— End of MAIN UNIT —</b>				
R3010	VRS-CY1JF392J	J	3.9k 1/16W M-Ox.	AA	<b>PWB-B: DUNTK8669WEK8</b>				
R3011	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	<b>CRT UNIT</b>				
R3012	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	<b>TRANSISTORS</b>				
R3013	VRD-RA2BE102J	J	1k 1/8W Carbon	AA	Q850	VS2SC5147// -1	J	2SC5147	AG
R3014	VRD-RA2BE102J	J	1k 1/8W Carbon	AA	Q851	VS2SC5147// -1	J	2SC5147	AG
R3015	VRD-RA2BE102J	J	1k 1/8W Carbon	AA	Q852	VS2SC5147// -1	J	2SC5147	AG
R3016	VRD-RA2BE102J	J	1k 1/8W Carbon	AA	Q853	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
R3017	VRD-RA2BE101J	J	100 1/8W Carbon	AB	Q854	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
R3018	VRD-RA2BE101J	J	100 1/8W Carbon	AB	Q855	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
R3104	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	Q890	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
R3201	VRD-RA2BE225J	J	2.2M 1/8W Carbon	AA	Q891	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
R3202	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA	Q894	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
R3203	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	Q1504	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
R3301	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA	Q1505	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
R3302	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA	Q1506	VS2SA1837// -1	J	2SA1837	AF
R3303	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA	Q1507	VS2SC4793// -1	J	2SC4793	AF
R3304	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA	<b>DIODES</b>				
R3305	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA	D850	VHD1SS119// -1	J	Diode	AB
R3306	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA	D851	VHD1SS119// -1	J	Diode	AB
R3311	VRS-CY1JF822J	J	8.2k 1/16W M-Ox.	AA	D852	VHD1SS119// -1	J	Diode	AB
R3312	VRS-CY1JF272J	J	2.7k 1/16W M-Ox.	AA	D890	VHD1SS119// -1	J	Diode	AB
R3313	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA	D891	VHD1SS119// -1	J	Diode	AB
R3314	VRS-CY1JF623J	J	62k 1/16W M-Ox.	AA	D892	VHD1SS119// -1	J	Diode	AB
R3315	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA	D893	VHD1SS119// -1	J	Diode	AB
R3316	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA	D894	VHD1SS119// -1	J	Diode	AB
R3317	VRS-CY1JF473J	J	47k 1/16W M-Ox.	AA	D895	VHD1SS119// -1	J	Diode	AB
R3318	VRS-CY1JF392J	J	3.9k 1/16W M-Ox.	AA	D896	VHD1SS119// -1	J	Diode	AB
R3319	VRS-CY1JF432J	J	4.3k 1/16W M-Ox.	AA	D897	RH-EX0718GEZZ	J	Zener Diode, 2.4V	AB
R3320	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA	D1502	VHD1SS119// -1	J	Diode	AB
R3321	VRS-CY1JF114J	J	110k 1/16W M-Ox.	AA	D1503	VHD1SS119// -1	J	Diode	AB
R3322	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA	D1506	RH-DX0086TAZZ	J	Diode	AC
<b>MISCELLANEOUS PARTS</b>					D1507	RH-DX0086TAZZ	J	Diode	AC
J1301	QTANJ0821CEZZ	M	Terminal, Video/Audio-in	AL	<b>COILS</b>				
J1302	QSOCD0430CEZZ	J	Socket, Video-1, S-Video	AE	L852	VP-MK680K0000	J	Peaking 68μH	AB
J1303	QSOCD0430CEZZ	J	Socket, Video-2, S-Video	AE	L853	VP-MK680K0000	J	Peaking 68μH	AB
J1701	QTANJ0527CEZZ	M	Terminal, Component-in	AH	L854	VP-MK680K0000	J	Peaking 68μH	AB
P109	QPLGN0661CEZZ	J	Plug, 6-Pin (EJ)	AD					
P351	QPLGN0461CEZZ	J	Plug, 4-Pin (S)	AB					
P404	QPLGN0461CEZZ	J	Plug, 4-Pin (PA)	AB					
P603	QPLGN0861CEZZ	J	Plug, 8-Pin (D)	AC					
P706	QPLGN0160CEZZ	J	Plug, 1-Pin (SG)	AB					
P1801	QPLGN0961CEZZ	J	Plug, 9-Pin (C)	AD					
P1802	QPLGN0561CEZZ	J	Plug, 5-Pin (CJ)	AB					
P1803	QPLGN1061CEZZ	J	Plug, 10-Pin (H)	AC					
P2001	QPLGN0561CEZZ	J	Plug, 5-Pin (TP2001-5)	AB					
P2002	QPLGN0561CEZZ	J	Plug, 5-Pin (KA)	AB					
P2003	QPLGN0461CEZZ	J	Plug, 4-Pin (YR)	AB					
RDA361	PRDAR5006MEFW	M	Heat Sink, for IC361	AC					
RDA740	PRDAR5072CEFW	J	Heat Sink, for IC740	AC					
RDA741	PRDAR5072CEFW	J	Heat Sink, for IC741	AC					

Ref. No.	Part No.	★	Description	Code
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## PWB-B: DUNTK8669WEK8 CRT UNIT (Continued)

### CAPACITORS

[EL.... Electrolytic]

C850	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C851	VCEA0A1CW476M	J	47	16V	EL.	AB
C856	VCKYAT1HB471K	J	470p	50V	Ceramic	AA
C857	VCKYD41HB471K	J	470p	50V	Ceramic	AA
C858	VCKYAT1HB681K	J	680p	50V	Ceramic	AA
C876	VCKYPA1HB561K	J	560p	50V	Ceramic	AA
C877	VCKYPA1HB681K	J	680p	50V	Ceramic	AA
C878	VCKYPA1HB821K	J	820p	50V	Ceramic	AA
C880	RC-KZ0153CEZZ	J	0.001	3kV	Ceramic	AB
C890	VCEA0A1CW227M	J	220	16V	EL.	AC
C892	VCEA0A1CW106M	J	10	16V	EL.	AB
C893	VCEA0A1CW106M	J	10	16V	EL.	AB
C894	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C1501	VCEA0A1EW476M	J	47	25V	EL.	AB
C1506	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C1508	VCKYPA2HB472K	J	4700p	500V	Ceramic	AB
C1509	VCKYPA1HB472K	J	4700p	50V	Ceramic	AA
C1510	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C1511	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C1515	VCEA0A1CW107M	J	100	16V	EL.	AC
C1516	VCEA0A1CW107M	J	100	16V	EL.	AC
C1517	VCEAGA2AW106M	J	10	100V	EL.	AC
C1518	VCCSPA2HL560K	J	56p	500V	Ceramic	AA
C1519	VCEAGA2CW106M	J	10	160V	EL.	AC

### RESISTORS

[M-Ox.... Metal Oxide]

R845	VRD-RA2BE680J	J	68	1/8W	Carbon	AA
R846	VRD-RA2BE680J	J	68	1/8W	Carbon	AA
R847	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R848	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R849	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R850	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R851	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R852	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
△ R853	VRS-VV3DB183J	J	18k	2W	M-Ox.	AA
△ R854	VRS-VV3DB183J	J	18k	2W	M-Ox.	AA
△ R855	VRS-VV3DB183J	J	18k	2W	M-Ox.	AA
R856	VRD-RA2BE820J	J	82	1/8W	Carbon	AA
R857	VRD-RA2BE820J	J	82	1/8W	Carbon	AA
R858	VRD-RA2BE820J	J	82	1/8W	Carbon	AA
R859	VRD-RA2BE680J	J	68	1/8W	Carbon	AA
△ R865	VRS-VV3DB153J	J	15k	2W	M-Ox.	AA
△ R866	VRS-VV3DB153J	J	15k	2W	M-Ox.	AA
△ R867	VRS-VV3DB153J	J	15k	2W	M-Ox.	AA
R868	VRD-RM2HD224J	J	220k	1/2W	Carbon	AA
R873	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R874	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R875	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R876	VRD-RA2BE560J	J	56	1/8W	Carbon	AA
R877	VRD-RA2BE560J	J	56	1/8W	Carbon	AA

Ref. No.	Part No.	★	Description	Code
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R878	VRD-RA2BE470J	J	47	1/8W	Carbon	AA
R880	VRC-MA2HG332K	J	3.3k	1/2W	Solid	AA
R881	VRC-MA2HG332K	J	3.3k	1/2W	Solid	AA
R882	VRC-MA2HG332K	J	3.3k	1/2W	Solid	AA
R883	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R884	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R885	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R886	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R887	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R888	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R890	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R891	VRD-RA2BE821G	J	820	1/8W	Carbon	AQ
R892	VRD-RA2BE331G	M	330	1/8W	Carbon	AA
R893	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R894	VRD-RA2BE102G	J	1k	1/8W	Carbon	AB
R895	VRD-RA2EE561J	J	560	1/4W	Carbon	AA
R896	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R1511	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
△ R1513	VRS-RG3DB561J	M	560	2W	M-Ox.	AA
R1514	VRD-RA2BE100J	J	10	1/8W	Carbon	AA
R1515	VRD-RA2BE820J	J	82	1/8W	Carbon	AA
R1516	VRD-RA2BE820J	J	82	1/8W	Carbon	AA
R1517	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R1518	VRD-RA2BE683J	J	68k	1/8W	Carbon	AA
R1519	VRD-RA2BE123J	J	12k	1/8W	Carbon	AA
R1520	VRD-RA2BE683J	J	68k	1/8W	Carbon	AA
R1521	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R1522	VRD-RA2EE331J	J	330	1/4W	Carbon	AA
R1525	VRD-RA2EE560J	J	56	1/4W	Carbon	AA
R1526	VRD-RA2EE560J	J	56	1/4W	Carbon	AA
R1527	VRD-RA2EE2R7J	J	2.7	1/4W	Carbon	AA
R1528	VRD-RA2EE2R7J	J	2.7	1/4W	Carbon	AA
△ R1529	VRS-RG3DB221J	J	220	2W	M-Ox.	AA

### MISCELLANEOUS PARTS

FB1501	RBLN-0020CEZZ	J	Ferrite Bead	AB
P850	QPLGN0561CEZZ	J	Plug, 5-Pin (CJ)	AB
P851	QPLGN0461CEZZ	J	Plug, 4-Pin (PA)	AB
P852	QPLGN0361CEZZ	J	Plug, 3-Pin (PU)	AB
P854	QPLGN0561CEZZ	J	Plug, 5-Pin (N)	AB
SC851	QSOCV0916CEZZ	J	CRT Socket	AH
RDA850	PRDAR5072CEFW	J	Heat Sink, for Q850	AC
RDA851	PRDAR5072CEFW	J	Heat Sink, for Q851	AC
RDA852	PRDAR5072CEFW	J	Heat Sink, for Q852	AC
RDA1506	PRDAR5072CEFW	J	Heat Sink, for Q1506	AC
RDA1507	PRDAR5072CEFW	J	Heat Sink, for Q1507	AC
	QCNW-0186MEZZ	M	Connecting Cord	AC
	QCNW-0188MEZZ	M	Connecting Cord	AD
	QCNW-0189MEZZ	M	Connecting Cord	AC
	LX-BZ3100CEFD	J	Screw	AA

— End of CRT UNIT —

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-C: DUNTK9580WEK0</b>									
<b>POWER UNIT</b>									
<b>INTEGRATED CIRCUITS</b>									
△ IC501	VHiTA8427K/-1	J	TA8427K	AL	△ D725	RH-DX0469CEZZ	J	Diode	AF
IC502	VHiTA1241AN-1	J	TA1241AN	AM		or			
IC504	VHiUPC358C/-1	J	UPC358C	AD		RH-DX0473CEZZ			
△ IC701	VHiSTRF65161E	M	STR-F6516	AR	△ D751	RH-DX0441CEZZ	J	Diode	AC
△ IC702	RH-FX0034CEZZ	J	PC817	AE	△ D752	RH-DX0441CEZZ	J	Diode	AC
	or				△ D753	RH-DX0441CEZZ	J	Diode	AC
	RH-FX0029CEZZ				△ D754	RH-DX0441CEZZ	J	Diode	AC
△ IC703	VHiSE125N//1	M	SE125N	AF	D755	VHD1SS119//1	J	Diode	AB
△ IC750	VHiKA7812Pi-1	R	KIA7812PI	AE	△ VA701	RH-VX0035CEZZ	J	Varistor	AF
<b>TRANSISTORS</b>					<b>PACKAGED CIRCUIT</b>				
Q501	VS2SC3198-Y-1	J	2SC3198 (Y)	AA	△ PR701	RMPTP0059CEZZ	J	Packaged Circuit	AH
Q601	VS2SC2482//1	J	2SC2482	AD		or			
△ Q602	VS2SD2500//2E	J	2SD2500	AT		RMPTP0056CEZZ			
Q672	VS2SA1266-Y-1	J	2SA1266 (Y)	AA	<b>COILS</b>				
Q673	VS2SD2045//1	J	2SD2045	AL	L501	VP-XF8R2K0000	J	Peaking 8.2μH	AB
Q751	VS2SC3198-Y-1	J	2SC3198 (Y)	AA	L671	RCiLZ0720CEZZ	J	Coil	AL
<b>DIODES</b>					L672	RCiLZ0789CEZZ	J	Coil	AK
△ D501	RH-DX0302CEZZ	J	Diode	AC	△ L701	RCiLF0273CEZZ	J	Coil	AM
D502	RH-EX0604GEZZ	J	Zener Diode, 3V	AB		or			
D504	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA		RCiLF0232CEZZ			
D507	RH-DX0441CEZZ	J	Diode	AC		or			
D508	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA	△ L702	RCiLF0273CEZZ	J	Coil	AM
D509	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA		or			
D511	RH-EX0654CEZZ	J	Zener Diode, 75V	AD		RCiLF0232CEZZ			
D602	VHD1SS119//1	J	Diode	AB		or			
△ D605	RH-DX0255CEZZ	J	Diode	AC		RCiLF0133CEZZ			
D621	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA		or			
D622	RH-DX0131CEZZ	J	Diode	AC		RCiLF0028PEZZ			
△△ D651	RH-DX0130CEZZ	J	Diode	AE	L705	RCiLP0179CEZZ	J	Coil	AD
△△ D652	RH-EX0641GEZZ	J	Zener Diode, 12V	AA		or			
△△ D653	VHD1SS119//1	J	Diode	AB		RCiLP0226CEZZ			
△△ D654	VHD1SS119//1	J	Diode	AB	L729	RCiLP0179CEZZ	J	Coil	AD
△ D673	RH-DX0229CEZZ	J	Diode	AF		or			
	or					RCiLP0226CEZZ			
	RH-DX0444CEZZ				L740	VP-XF101K0000	J	Peaking 100μH	AB
D705	VHD1SS82///1A	J	Diode	AC	<b>TRANSFORMERS</b>				
D706	RH-DX0130CEZZ	J	Diode	AE	△ T601	RTRNZ0057PEZZ	R	Transformer	AK
D707	VHD1SS82///1A	J	Diode	AC	△△ T602	RTRNF0021MEZZ	M	H-Out	BC
D708	RH-DX0130CEZZ	J	Diode	AE	△ T701	RTRNP0518CEZZ	J	Power	AN
△ D709	RH-DX0229CEZZ	J	Diode	AF		or			
	or					RTRNP0516CEZZ			
	RH-DX0418CEZZ				△ T702	RTRNZ0006MEZZ	M	Transformer	AQ
△ D712	RH-DX0407CEZZ	J	Diode	AD	<b>CAPACITORS</b>				
△ D713	RH-DX0259CEZZ	J	Diode	AH	<i>[EL... Electrolytic, M-Poly... Metalized Polypro Film]</i>				
	or				C451	VCQYTA2AA104K	J	0.1 100V Mylar	AB
	RH-DX0336CEZZ				C501	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
D715	RH-EX0354GEZZ	J	Zener Diode, 3.6V	AA	C502	VCEA0A1VW108M	J	1000 35V EL.	AD
D716	VHD1SS119//1	J	Diode	AB	C503	VCEA0A1CW477M	J	470 16V EL.	AC
D720	VHD1SS119//1	J	Diode	AB	C505	VCFYSA1HB223J	J	0.022 50V Mylar	AA
D723	RH-EX0650GEZZ	J	Zener Diode, 16V	AB					



Ref. No.	Part No.	★	Description	Code
<b>PWB-C: DUNTK9580WEK0</b>				
<b>POWER UNIT (Continued)</b>				
C506	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C507	VCEAGA1HW334T	J	0.33 50V EL.	AC
C508	VCFYHA1HA104J	J	0.1 50V Mylar	AB
C509	VCEACA1HC225J	J	2.2 50V EL.	AC
C511	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C512	VCEA0A1VW107M	J	100 35V EL.	AC
C514	RC-QZA683TAYJ	J	0.068 50V Mylar	AB
C516	VCFYAA2AA564J	J	0.56 100V Mylar	AD
C517	VCFYHA1HA473J	J	0.047 50V Mylar	AB
C518	VCFYHA1HA473J	J	0.047 50V Mylar	AB
C519	VCEA0A1VW108M	J	1000 35V EL.	AD
C520	VCEACA1HC105J	J	1 50V EL.	AB
C521	VCEACA1HC105J	J	1 50V EL.	AB
C530	VCEA0A1VW476M	J	47 35V EL.	AB
C533	VCFYSA1JA473J	J	0.047 63V Mylar	AC
C538	VCCSPA1HL101J	J	100p 50V Ceramic	AA
C539	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C605	VCKYPA1HB102K	J	1000p 50V Ceramic	AA
C606	VCKYPA2HB561K	J	560p 500V Ceramic	AA
C607	VCKYPA1HB472K	J	4700p 50V Ceramic	AA
C608	RC-KZ0033CEZZ	J	150p 2kV Ceramic	AB
▲▲ C609	VCFPPD3CA912H	J	9100p 1.6KV M-Poly.	AE
▲▲ C610	VCFPPD3CA912H	J	9100p 1.6KV M-Poly.	AE
C615	VCKYPA2HB272K	J	2700p 500V Ceramic	AA
C622	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C623	VCEA0A2EW336M	J	33 250V EL.	AF
C626	VCQPPB2DB153J	J	0.015 200V M-Poly.	AB
C652	VCEA0A1VW476M	J	47 35V EL.	AB
C677	RC-FZ0184CEZZ	J	4.7 100V Mylar	AG
▲▲ C678	VCQPPC2GB473J	J	0.047 400V M-Poly.	AB
C680	VCFPPD2DB684J	J	0.68 200V M-Poly.	AE
C681	VCFYHA1HA104J	J	0.1 50V Mylar	AB
C682	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C683	VCCSPA2HL560K	J	56p 500V Ceramic	AA
▲ C701	RC-FZ016SGEZZ	J	0.47 AC125V Plastic	AK
C702	RC-KZ0029CEZZ	J	0.01 500V Ceramic	AC
C703	RC-KZ0029CEZZ	J	0.01 500V Ceramic	AC
▲ C705	RC-EZ0720CEZZ	M	680 200V EL.	AK
	or			
	RC-EZ0684CEZZ			
	or			
	RC-EZ0394CEZZ			
▲ C706	RC-KZ0092GEZZ	J	0.0033 AC250V Ceramic	AC
	or			
	RC-KZ0311CEZZ			
C707	VCFPPC3CA222H	J	2200p 1.6kV M-Poly.	AD
C708	VCCSPA1HL471J	J	470p 50V Ceramic	AA
C709	VCEA0A1VW107M	J	100 35V EL.	AC
C710	RC-QZA222TAYJ	J	0.022 50V Mylar	AB
C717	VCKYPA2HB472K	J	4700p 500V Ceramic	AB
C722	RC-QZA104TAYK	J	0.1 50V Mylar	AB

Ref. No.	Part No.	★	Description	Code
▲ C723	RC-EZ0696CEZZ	M	220 160V EL.	AE
	or			
	RC-EZ0492CEZZ			
	or			
	RC-EZ0660CEZZ			
▲ C725	RC-EZ0697CEZZ	M	330 160V EL.	AG
	or			
	RC-EZ0493CEZZ			
	or			
	RC-EZ0661CEZZ			
C726	RC-KZ0338CEZZ	J	560p 2kV Ceramic	AD
C727	RC-KZ0338CEZZ	J	560p 2kV Ceramic	AD
C730	VCEA0A1EW108M	J	1000 25V EL.	AD
C731	VCEA0A1CW108M	J	1000 16V EL.	AD
C732	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C741	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C742	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C751	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C753	VCEA0A1CW107M	J	100 16V EL.	AC
C760	RC-QZA393TAYK	J	0.039 50V Mylar	AB
C772	VCEA0A1VW477M	J	470 35V EL.	AB
C773	VCCSPA1HL101J	J	100p 50V Ceramic	AA

**RESISTORS***[M-Ox... Metal Oxide, M-Film... Metal Film]*

▲ R451	VRS-RG3AB103J	J	10k 1W	M-Ox.	AB
R452	VRD-RM2HD823J	J	82k 1/2W	Carbon	AA
R453	VRD-RA2EE274J	J	270k 1/4W	Carbon	AA
▲ R501	VRN-RL3LB2R2J	M	2.2 3W	M-Film	AA
R502	VRD-RA2BE184J	J	180k 1/8W	Carbon	AA
R503	VRD-RA2BE124J	J	120k 1/8W	Carbon	AA
R504	VRD-RA2BE393J	J	39k 1/8W	Carbon	AA
R505	VRD-RA2BE153J	J	15k 1/8W	Carbon	AA
R506	VRD-RA2BE223J	J	22k 1/8W	Carbon	AA
R507	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R508	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R509	VRD-RA2BE181J	J	180 1/8W	Carbon	AA
R510	VRD-RA2BE332J	J	3.3k 1/8W	Carbon	AA
R511	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R512	VRD-RA2EE102J	J	1k 1/4W	Carbon	AA
R514	VRD-RA2BE103J	J	10k 1/8W	Carbon	AA
R515	VRD-RA2BE102J	J	1k 1/8W	Carbon	AA
R516	VRD-RA2BE274J	J	270k 1/8W	Carbon	AA
R517	VRD-RA2BE823J	J	82k 1/8W	Carbon	AA
R520	VRD-RA2BE181J	J	180 1/8W	Carbon	AA
R521	VRD-RA2BE562J	J	5.6k 1/8W	Carbon	AA
R522	VRS-RG3AB102J	M	1k 1W	M-Ox.	AA
R523	VRD-RA2BE183J	J	18k 1/8W	Carbon	AA
R524	VRD-RM2HD152J	J	1.5k 1/2W	Carbon	AA
R525	VRD-RA2BE473J	J	47k 1/8W	Carbon	AA
R527	VRD-RA2BE103J	J	10k 1/8W	Carbon	AA
R529	VRD-RA2BE273G	J	27k 1/8W	Carbon	AA
R530	VRD-RA2BE683G	J	68k 1/8W	Carbon	AA
R531	VRD-RA2BE563J	J	56k 1/8W	Carbon	AA
R532	VRD-RA2BE824J	J	820k 1/8W	Carbon	AA
R533	VRD-RA2BE151J	J	150 1/8W	Carbon	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code	
<b>PWB-C: DUNTK9580WEK0</b>					<b>MISCELLANEOUS PARTS</b>					
<b>POWER UNIT (Continued)</b>					△ RY701	RRLYU0036CEZZ	J	Relay	AM	
					or					
					RRLYU0038CEZZ					
R534	VRD-RA2BE181J	J	180 1/8W	Carbon	AA	△ F701	QFS-B5023CEZZ	J	Fuse 5A (AC125V)	AC
R535	VRN-RL3DB1R5J	M	1.5 2W	M-Film	AA	FB501	RBLN-0037CEZZ	J	Ferrite Bead	AB
R549	VRS-RG3DB391J	M	390 2W	M-Ox.	AA	FB601	RBLN-0047CEZZ	J	Ferrite Bead	AB
R558	VRD-RA2BE104J	J	100k 1/8W	Carbon	AA	FB671	RBLN-0047CEZZ	J	Ferrite Bead	AB
R605	VRD-RM2HD470J	J	47 1/2W	Carbon	AA	FB701	RBLN-0037CEZZ	J	Ferrite Bead	AB
R606	VRD-RM2HD271J	J	270 1/2W	Carbon	AA	FB702	RBLN-0036CEZZ	J	Ferrite Bead	AB
△ R607	VRS-KA3HG122J	J	1.2k 5W	M-Ox.	AD	FB704	RBLN-0037CEZZ	J	Ferrite Bead	AB
△ R608	VRS-RG3LB391J	M	390 3W	M-Ox.	AA	FB706	RBLN-0037CEZZ	J	Ferrite Bead	AB
△ R609	VRS-RG3AB562J	M	5.6k 1W	M-Ox.	AA	FH701	QFSDH1013CEZZ	J	Fuse Holder	AC
R610	VRD-RM2HD220J	J	22 1/2W	Carbon	AA	FH702	QFSDH1014CEZZ	J	Fuse Holder	AC
△ R611	VRW-KQ41C3R3K	J	3.3 15W	Cement	AG	P501	QPLGN0961CEZZ	J	Plug, 9-Pin (C)	AD
△ R621	VRN-RL3LB1R2J	M	1.2 3W	M-Film	AB	P601	QPLGN0161FJZZ	M	Plug, 6-Pin (K)	AC
△ R622	VRN-RL2HCR68J	M	0.68 1/2W	M-Film	AA	P602	QPLGN0861CEZZ	J	Plug, 8-Pin (D)	AC
△ R623	VRN-RL3AB1R0J	M	1 1W	M-Film	AA	P621	QPLGN0561CEZZ	J	Plug, 5-Pin (N)	AB
△ R624	VRS-RG3DB332J	M	3.3k 2W	M-Ox.	AA	P651	QPLGN0361CEZZ	J	Plug, 3-Pin (TP651-3)	AB
R625	VRD-RA2BE102J	J	1k 1/8W	Carbon	AA	P701	QPLGN0404CEZZ	J	Plug, 4-Pin (M)	AB
R626	VRD-RM2HD563J	J	56k 1/2W	Carbon	AA	P703	QPLGN0269GEZZ	J	Plug, 2-Pin (P)	AB
△△ R651	VRN-RL2HC1R0J	M	1 1/2W	M-Film	AA	P704	QPLGN0160CEZZ	J	Plug, 1-Pin (SG)	AB
△△ R652	VRD-RA2EE333J	J	33k 1/4W	Carbon	AA	P705	QPLGN1061CEZZ	J	Plug, 10-Pin (H)	AC
△△ R653	VRD-RA2EE562J	J	5.6k 1/4W	Carbon	AA	RDA501	PRDAR0234PEFW	R	Heat Sink, for IC501	AH
△△ R654	VRD-RA2EE682J	J	6.8k 1/4W	Carbon	AA	RDA601	PRDAR0150PEFW	R	Heat Sink, for Q602	AL
R682	VRD-RA2BE102J	J	1k 1/8W	Carbon	AA	RDA671	PRDAR1007MEFW	M	Heat Sink, for Q673	AF
R684	VRD-RA2BE472J	J	4.7k 1/8W	Carbon	AA	RDA701	PRDAR1006MEFW	M	Heat Sink, for IC701	AF
R685	VRD-RA2EE562J	J	5.6k 1/4W	Carbon	AA	LX-BZ3049GEFD J Screw				AA
R686	VRD-RA2EE222J	J	2.2k 1/4W	Carbon	AA					
R687	VRD-RA2BE103J	J	10k 1/8W	Carbon	AA					
△ R688	VRN-RL3DB3R3J	M	3.3 2W	M-Film	AA					
R689	VRD-RA2EE104J	J	100k 1/4W	Carbon	AA					
△ R690	VRS-RG3LB561J	M	560 3W	M-Ox.	AA					
△ R701	RR-HZ0048CEZZ	M	3.9M 1/2W	Carbon	AB					
△ R702	VRW-KQ4AC1R2K	M	1.2 10W	Cement	AC					
△ R703	VRS-RG3LB101J	J	100 3W	M-Ox.	AC					
R704	VRD-RM2HD154J	J	150k 1/2W	Carbon	AA					
△ R705	VRN-RL3DBR22J	J	0.22 2W	M-Film	AA					
△ R706	VRN-RL3DBR27J	M	0.27 2W	M-Film	AA					
R707	VRS-RG2HC681J	J	680 1/2W	M-Ox.	AA					
R709	VRN-GA2EB1R0J	J	1 1/4W	M-Film	AA					
R710	VRD-RM2HD330J	J	33 1/2W	Carbon	AA					
R711	VRD-RA2BE152J	J	1.5k 1/8W	Carbon	AA					
R712	VRD-RA2EE562J	J	5.6k 1/4W	Carbon	AA					
R713	VRD-RA2EE152J	J	1.5k 1/4W	Carbon	AA					
△ R715	VRS-RG3DB153J	J	15k 2W	M-Ox.	AA					
△ R723	VRN-RL3DBR56J	M	0.56 2W	M-Film	AA					
R724	VRS-RG2HC332J	J	3.3k 1/2W	M-Ox.	AA					
△ R725	VRS-RG3AB182J	J	1.8k 1W	M-Ox.	AA					
△ R734	VRS-RG3LB223J	M	22k 3W	M-Ox.	AA					
R737	VRN-RL3DBR56J	M	0.56 2W	M-Film	AA					
R751	VRD-RA2BE473J	J	47k 1/8W	Carbon	AA					
R753	VRS-RG3AB391J	M	390 1W	M-Ox.	AA					
R760	VRD-RA2EE822J	J	8.2k 1/4W	Carbon	AA					
<b>SWITCH</b>										
S502	QSW-B0015CEZZ	J	V-Center	AC						
					<b>— End of POWER UNIT —</b>					

— End of POWER UNIT —

Ref. No.	Part No.	★	Description	Code
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## PWB-F: DUNTK9514WEK1 CONTROL UNIT

### DIODES

D4002	RH-PX0383CEZZ	M	LED, Power	AC
D4003	RH-PX0383CEZZ	M	LED, V-LIM	AC

### CAPACITOR

[EL... Electrolytic]

C4001	VCEA0A1HW475M	J	4.7 50V EL.	AB
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### RESISTORS

R4001	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R4003	VRD-RA2BE273J	J	27k 1/8W Carbon	AA
R4004	VRD-RA2BE563J	J	56k 1/8W Carbon	AA
R4005	VRD-RA2EE331J	J	330 1/4W Carbon	AA
R4006	VRD-RA2BE563J	J	56k 1/8W Carbon	AA
R4007	VRD-RA2BE123J	J	12k 1/8W Carbon	AA
R4008	VRD-RA2EE750J	J	75 1/4W Carbon	AA
R4009	VRD-RA2BE153J	J	15k 1/8W Carbon	AA
R4010	VRD-RA2BE272J	J	2.7k 1/8W Carbon	AA

### SWITCHES

S4001	QSW-K0079GEZZ	J	Power	AB
S4002	QSW-K0079GEZZ	J	CH-up	AB
S4003	QSW-K0079GEZZ	J	CH-down	AB
S4004	QSW-K0079GEZZ	J	VOL-up	AB
S4005	QSW-K0079GEZZ	J	VOL-down	AB

### MISCELLANEOUS PARTS

J4001	QJAKE0179CEZZ	M	Jack, Audio-In (L)	AB
J4002	QJAKE0180CEZZ	M	Jack, Audio-In (R)	AB
J4003	QJAKE0181CEZZ	M	Jack, Video-In	AC
P4001	QPLGN0461CEZZ	J	Plug, 4-Pin (YR)	AB
P4002	QPLGN0561CEZZ	J	Plug, 5-Pin (KA)	AB
P4003	QPLGN0661CEZZ	J	Plug, 6-Pin (EJ)	AD
RMC4001	RRMCU0230CEZZ	M	R/C Receiver	AF

or

RRMCU0231CEZZ				
QCNW-0182MEZZ	M	Connecting Cord	AF	
QCNW-0183MEZZ	M	Connecting Cord	AC	
QCNW-0184MEZZ	M	Connecting Cord	AR	

— End of CONTROL UNIT —

Ref. No.	Part No.	★	Description	Code
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## MISCELLANEOUS PARTS

△ ACC701	QACCD3052CESA	M	AC Cord	AG
	or			
	QACCD3039CESA			
	QCNW-0187MEZZ	M	Connecting Cord	AD
	QCNW-0190MEZZ	M	Connecting Cord	AE
	QCNW-0191MEZZ	M	Connecting Cord	AD
	QCNW-0192MEZZ	M	Connecting Cord	AD
	QCNW-0193MEZZ	M	Connecting Cord	AE
	QCNW-0194MEZZ	M	Connecting Cord	AC
SP1	VSP1206PB396E	M	Speaker (L)	AN
SP2	VSP1206PB396E	M	Speaker (R)	AN

— End of MISCELLANEOUS PARTS —

## PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC0605MEZZ	—	Packing Case	—
SPAKX0171MEZZ	—	Buffer Material	—
SSAKA0004MEZZ	—	Polyethylene Sack	—

— End of PACKING PARTS —

## SUPPLIED ACCESSORIES

TGAN-1006MEZZ	M	Guarantee Card	AA
TiNS-6410MEZZ	M	Operation Manual	AD
RRMCG1420CESA	M	Infrared R/C Unit	AW

— End of SUPPLIED ACCESSORIES —

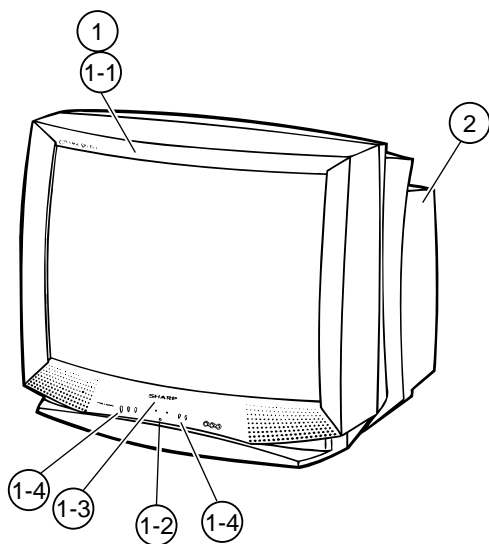
Ref. No.	Part No.	★	Description	Code
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## CABINET PARTS

1	CCABA1293MES0	M	Front Cabinet Ass'y	BL
1-1	<i>Not Available</i>	—	Front Cabinet	—
1-2	GCOVA1040MEKA	M	Cover for R/C Receiver	
1-3	HBDGB1009MESA	M	Badge, "SHARP"	AD
1-4	JBTN-1105MEKA	M	Button, Power, Vol-up/down, CH-up/down	AE
2	GCABB1139MEKA	M	Rear Cabinet	BF

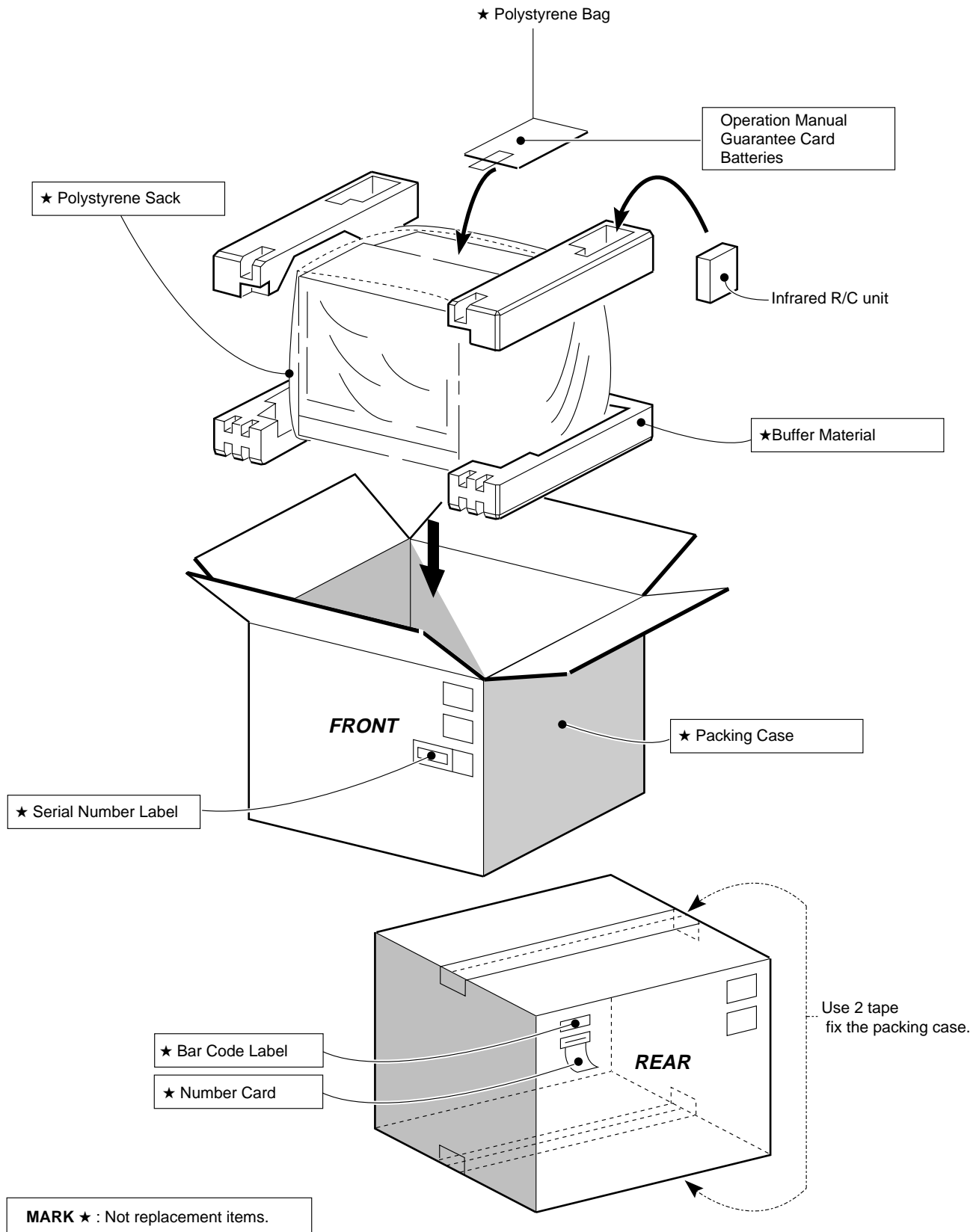
— End of CABINET PARTS —

## CABINET PARTS LOCATION





# PACKING OF THE SET





# SHARP

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